## **FINAL**

# INSTALLATION RESTORATION PROGRAM CLOSURE INVESTIGATION REPORT SITE 1 - FORMER BASE LANDFILL

STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

**VOLUME II OF II** 

APRIL 1997

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Prepared For AIR NATIONAL GUARD READINESS CENTER ANDREWS AFB, MARYLAND 20762-5157

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#### **Prepared For**

AIR NATIONAL GUARD READINESS CENTER ANDREWS AFB, MARYLAND 20762-5157

Prepared By

## **ANEPTEK CORPORATION**

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# SITE INSPECTION STEWART AIR NATIONAL GUARD BASE

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#### APPENDIX A

### GEOPHYSICAL SURVEY BACKGROUND DATA

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APPENDIX A-1

MAGNETIC MEASUREMENTS

# APPENDIX A-1 MAGNETIC (TOTAL FIELD) MEASUREMENTS

#### INTRODUCTION

The magnetic method is a versatile, relatively inexpensive, geophysical exploration technique. Magnetic data can be acquired on land or water, or in the air. Aeromagnetic surveys and deep water marine studies are commonly used as a reconnaissance tool for evaluating hydrocarbon prospects. Land-based or coastal water marine magnetic surveys are usually done for evaluating shallow geologic structures (e.g., shallow mineral deposits) in detail. Such surveys have also been used successfully in locating manmade features; for example, in archeological prospecting.

More recently, the focus of national attention on the hazardous waste problem has prompted routine use of magnetometers for locating repositories of buried (drummed) wastes. Locating and quantifying these materials is essential to any remediation effort, and magnetometer surveys can provide an extra measure of safety to those personnel involved in the clean-up activities.

#### EARTH MAGNETISM

Although the origin of the earth's magnetic field is not well understood, it is known that the earth behaves magnetically, as if a large bar magnet were located near its center. The axis of this "magnet" is oriented at a small angle, which produces the differences between "true" north and "magnetic" north. The angle is called the declination. The lines of magnetic force are nearly horizontal at the equator and nearly vertical at the poles. The angle between these lines of force and horizontal at any point on the earth's surface is known as the inclination.

The strength of the magnetic field also varies over the surface of the earth, and is stronger at the poles than at the equator. The strength of the field is approximately 60,000 gammas at the poles and 30,000 gammas at the equator (where 1 gamma = 0.00001 Gauss).

The earth's magnetic field (sometimes referred to as its "ambient" field) is modified locally by both naturally occurring and manmade magnetic materials. Two types of magnetization contribute to this: induced and remanent. Induced magnetization refers to the ability of a material to act as a magnet itself, thereby enhancing the ambient field. The more the ambient field is enhanced by a material, the greater is the "magnetic susceptability" for that material.

Remanent or permanent magnetization often predominates over induced magnetization in igneous rocks and metals. (Remanent refers to rocks, whereas permanent refers to metals). Remanent or permanent magnetization is produced in materials that have been heated above the Curie point, allowing magnetic minerals to align with the earth's ambient field before cooling. The remanent field direction is not, in general, parallel to the earth's present field. It may, in fact, act in the opposite direction. The remanent field combines vectorially with the ambient and induced field components, and any quantitative

interpretation of magnetic data should consider this if such information is available.

#### INSTRUMENTATION

Although many types of magnetometers are available, by far the most widely used is the "proton precession" type. This device utilizes the precession of spinning protons of hydrogen atoms in a sample of hydrogen-rich fluid (i.e., kerosene, alcohol, or water) to measure the total magnetic field intensity.

Protons spinning in an atomic nucleus behave like tiny magnetic dipoles which can be aligned (polarized) by an external magnetic field. The protons are initially aligned parallel to the earth's field. A second, much stronger magnetic field is produced approximately perpendicular to the earth's field by introducing electric current through a coil of wire. The protons become temporarily aligned with this stronger field. When this stronger field is removed, the protons tend to realign themselves with the earth's field, causing them to precess about this direction at a frequency of about 2,000 Hz. precessing protons will generate a small electric signal in the same coil used to polarize them, with a frequency proportional to the total magnetic field intensity and independent of the coil orientation. By measuring the signal frequency, one can obtain the absolute value of the total earth's field intensity to an accuracy of 1 gamma or better. The total magnetic field value measured by the proton precession magnetometer is the net vector sum of the ambient earth's field and any local induced and/or remanent (permanent) perturbations.

#### FIELD TECHNIQUES

In the field, the operator should avoid any source of high magnetic gradients (e.g., powerlines, buildings, or large iron or steel objects). The operator should also avoid carrying any unnecessary metal articles. Magnetic stations are established at intervals that reflect the nature of the survey and the magnetic gradients encountered.

At hazardous waste sites, a typical "rough" reconnaissance grid might start out at a 25-foot interval, and would be closed down to 3 or 5 feet in areas where fine detail is desired. Base station readings should be taken frequently (every 30 to 60 minutes) to provide a check on diurnal variations and magnetic storms that may occur during a survey. Typically, diurnal variations will not exceed a few tens of gammas, but magnetic storms may produce changes in the earth's field of thousands of gammas in a short period of time (the order of hours). If survey requirements dictate, it may be prudent to establish a continuously recording magnetic base station to account for diurnal variations. If a magnetic storm occurs, survey operations should cease until the storm is over.

#### INTERPRETATION

For typical manmade iron or steel objects, one may quantify estimates for the approximate depth of burial and the amount of metal which produces an observed

magnetic perturbation (or anomaly). The size of the anomaly (T) can be expressed as:

$$T = (M)/(r)^n$$

where "M" is the magnetic moment of the source, "r" is the depth to the source, and "n" is a measure of the rate of decay with distance (n = 3 for a dipole source and 2 for a monopole source).

Assuming a dipole source, the weight of a metal object (in pounds) can be expressed by the following relation:

Weight = 
$$((T)*(r)^3)/(M)$$

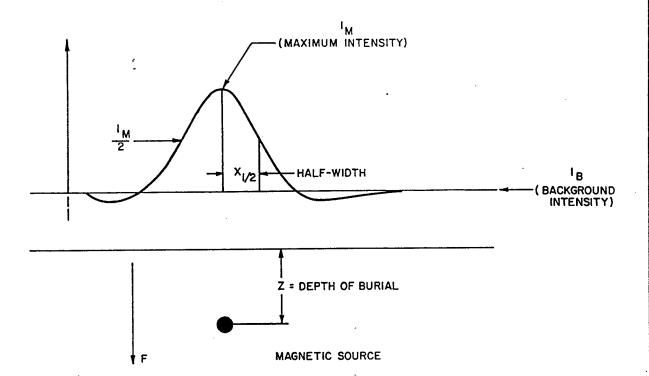
where "M" is the magnetic moment per pound of iron and varies from approximately 175 to 1750, "r" is the depth in feet (below the sensor), and "T" is the anomaly amplitude in gammas.

The depth, "r", of a magnetic source can be estimated by a number of techniques, but perhaps the simplest is by the "half-width" rule. This states that for simple anomaly sources, the depth to the center of the anomaly is equal to the "half-width" of the anomaly. The half-width is the horizontal distance between the maximum value of the anomaly and the point at which the value is one-half the maximum value (Figure A-1).

A further refinement in magnetic studies is permitted with the addition of vertical gradient measurements. This involves the simultaneous acquisition by two sensors of two values of the total field. The sensors are mounted on a staff that is held vertically during a measurement. A known distance (commonly one-half or one meter) separates the sensors on the staff. Vertical gradient measurements tend to be more sensitive to the presence of near surface metal objects than total field values alone. There are commercially available magnetometers that record field data in an internal memory which can be "dumped" onto a personal computer at the completion of field activities. These instruments can record the total field value, the vertical gradient, the time and date of the measurement, and the station location (input by the user), as well as a number of parameters which permit an evaluation of data quality.

The vertical gradient data obtained during the present study are presented as Figures A-2 through A-19. The reader is referred to the main text (Section 5.0) for a discussion of the interpretation and results of these data.

DEPTH CALCULATION/METAL QUANTITY FOR TOTAL FIELD MEASUREMENTS:



T = MAGNETIC ANOMALY INTENSITY

= MAXIMUM ANOMALY INTENSITY MINUS BACKGROUND INTENSITY

$$= \frac{M_{fps}}{r^3} = \frac{1.75 \times 10^2 \text{ to } 1.75 \times 10^3}{(1 \text{ to 2}) r^3}$$

where "M<sub>fps</sub>" is the magnetic moment per pound of iron and "r" is the distance between the magnetometer sensor and the object (the depth of burial) "z" is equal to "r" minus the height of the sensor above the ground.

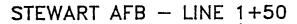
DEPTH CALCULATION FOR GRADIOMETER MEASUREMENTS

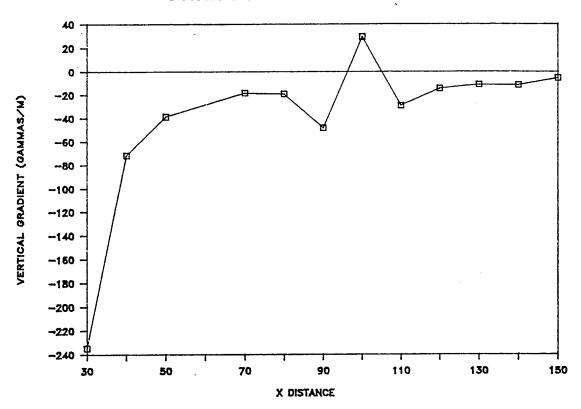
$$r = \frac{-nT}{\frac{dT}{dz}}$$

where "n" is the "falloff" factor and generally varies from 1 to 2, depending on the magnetic source, "r" is the separation between the midpoint between the two sensors and the object.

## MAGNETOMETER DATA INTERPRETATION

FIGURE A-1





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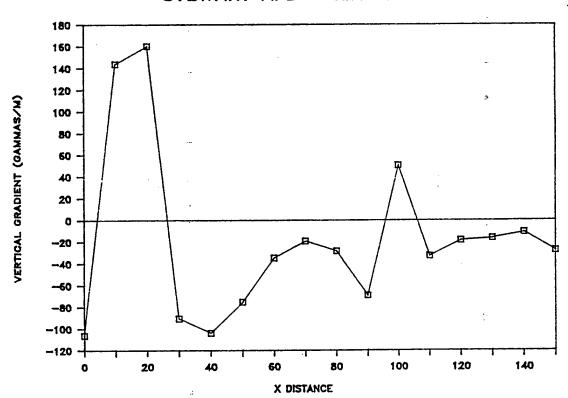
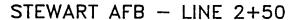
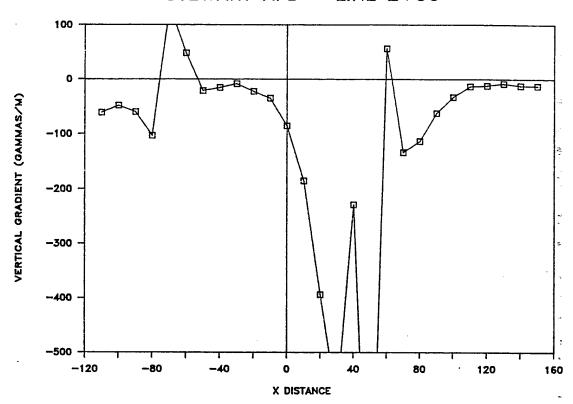


FIGURE A-2





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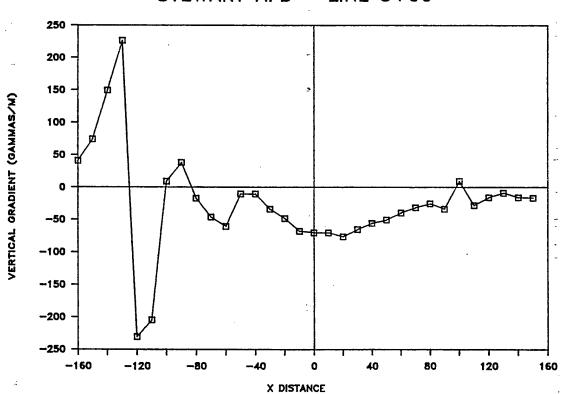
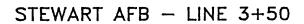
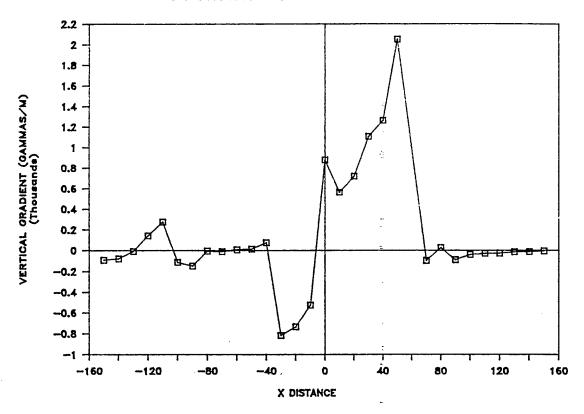
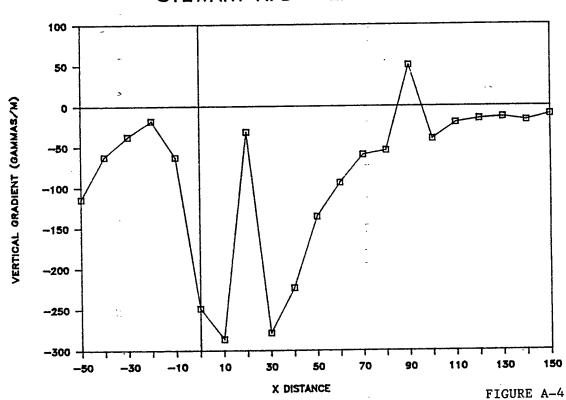


FIGURE A-3

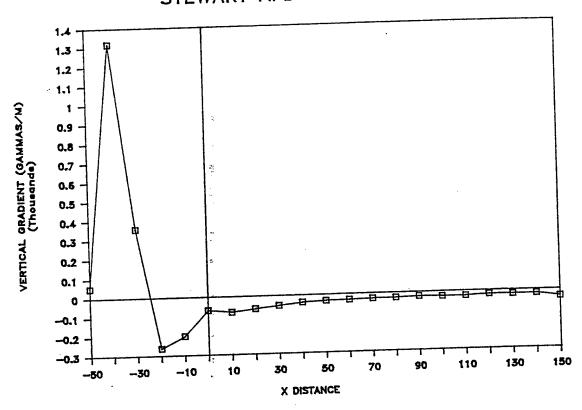




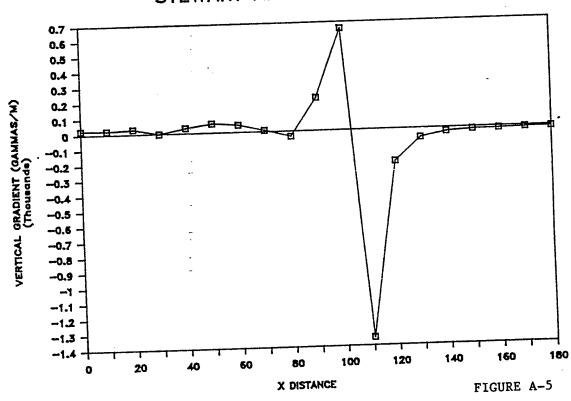
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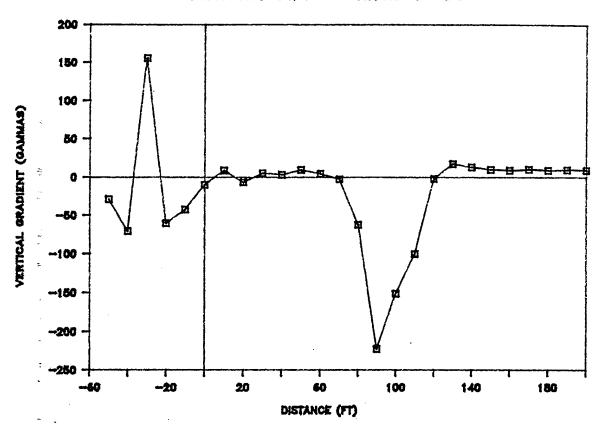
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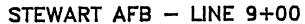


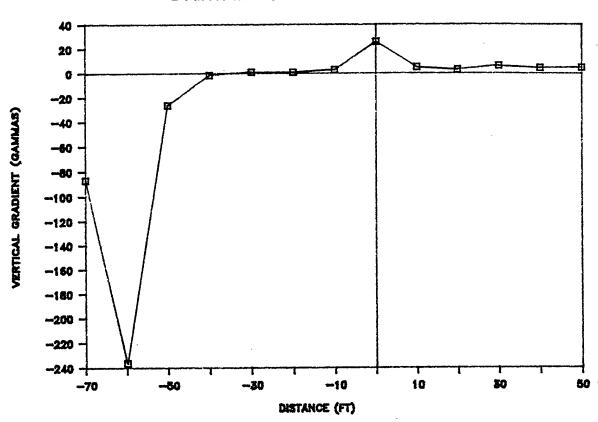
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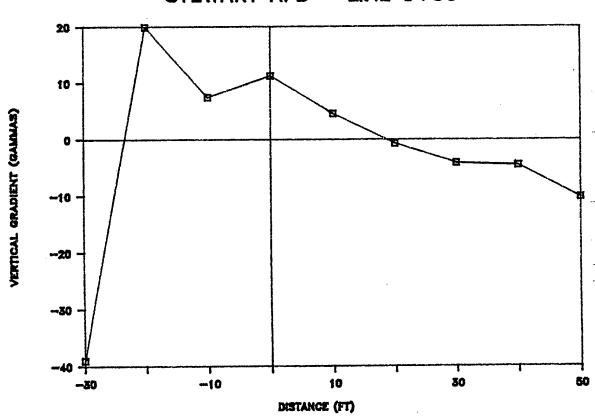
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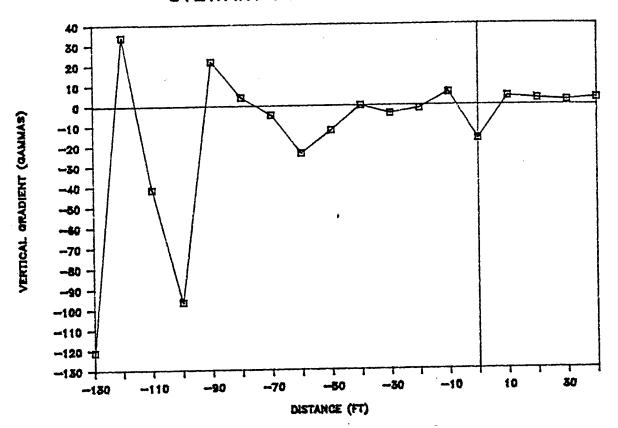




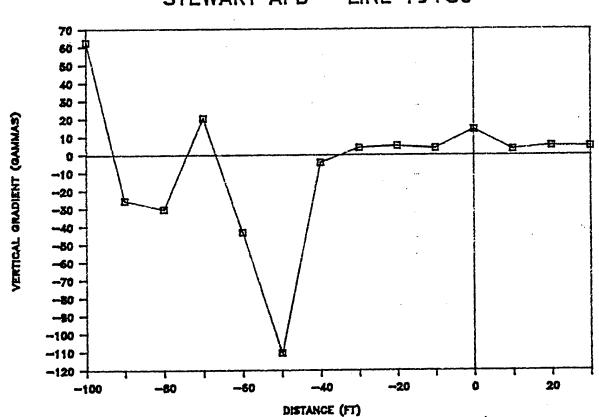
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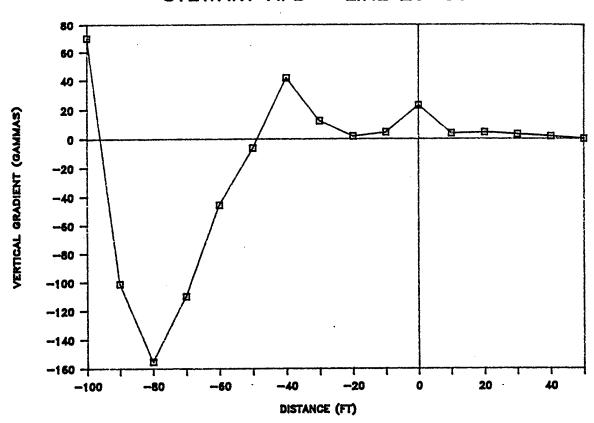
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## STEWART AFB - LINE 19+50



## STEWART AFB - LINE 20+00



## STEWART AFB - LINE 20+50

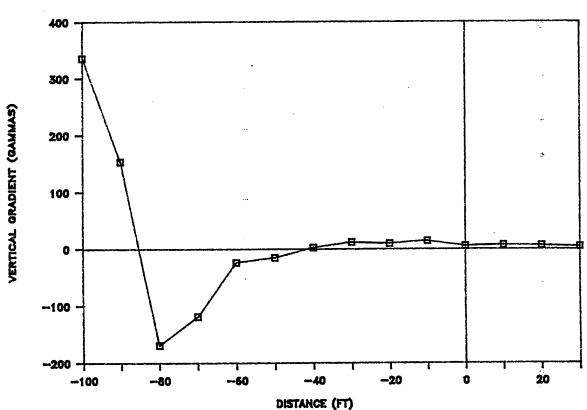
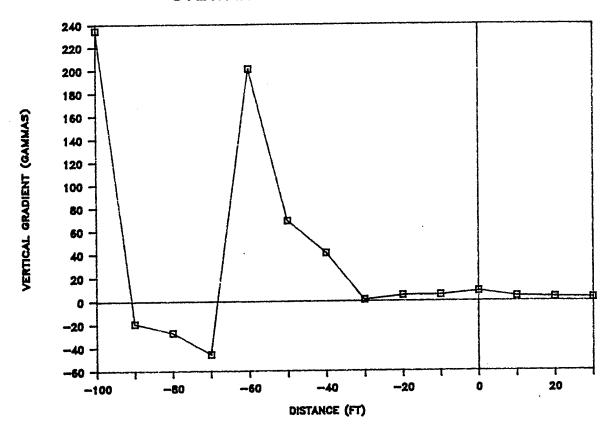
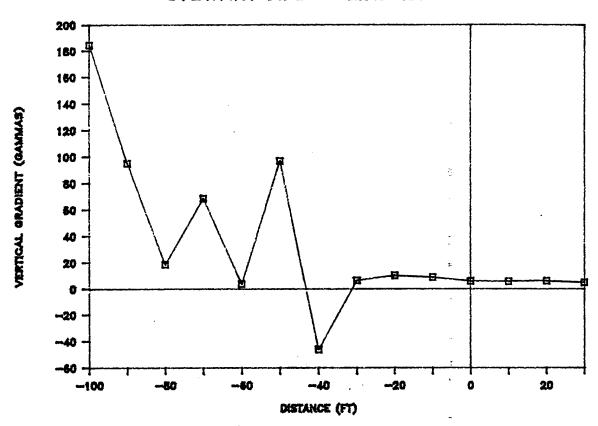


FIGURE A-9

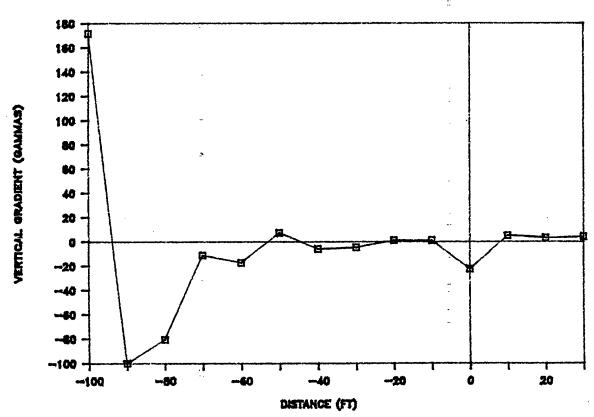
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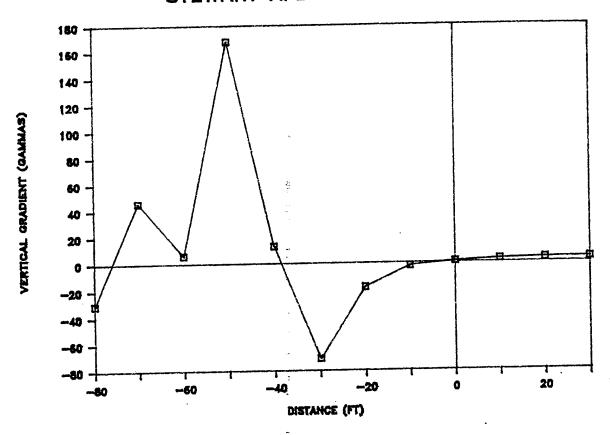
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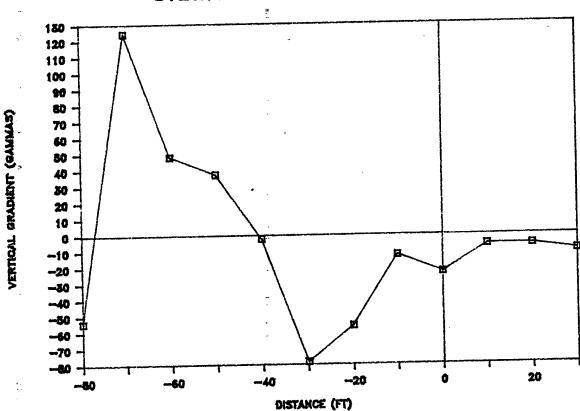
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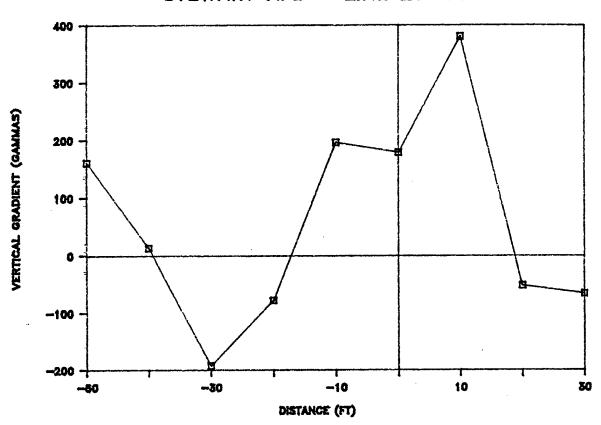
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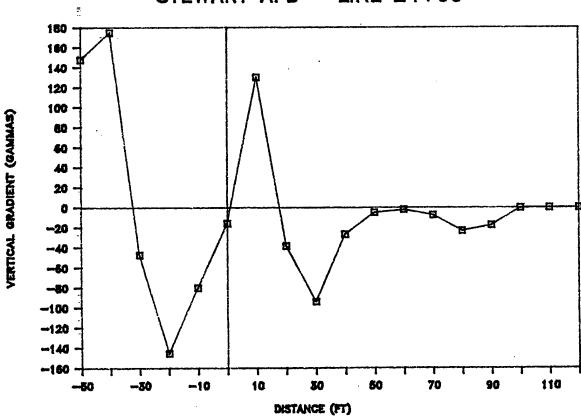
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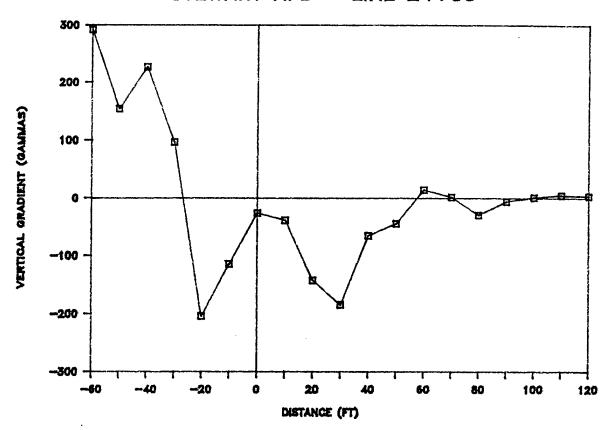
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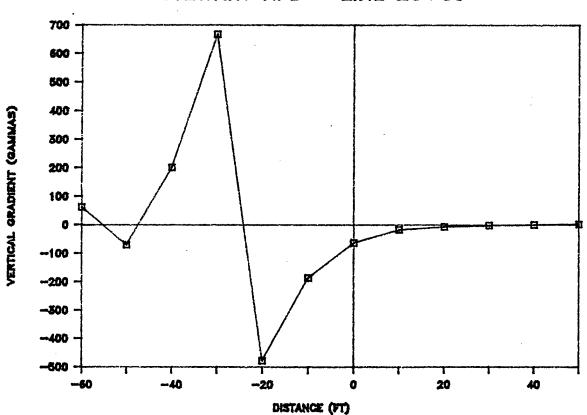
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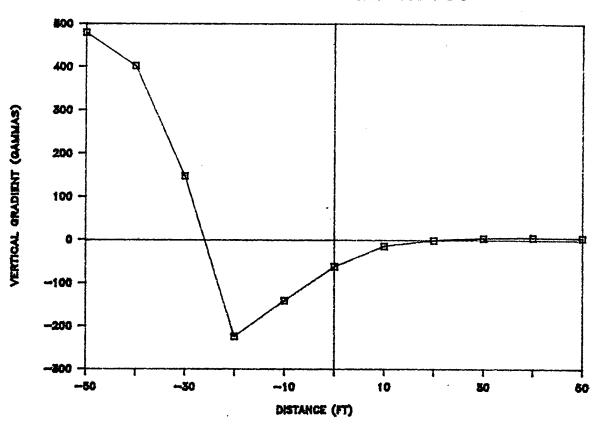
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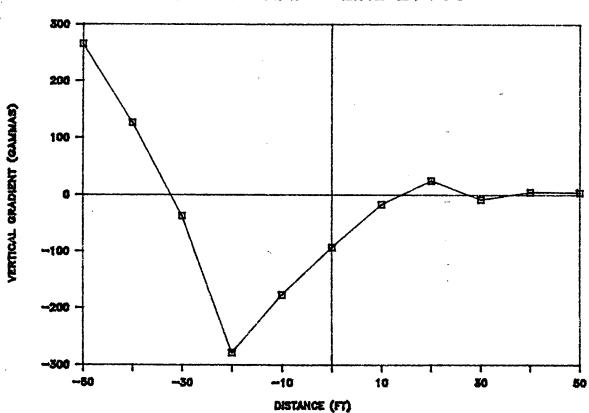
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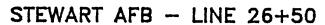


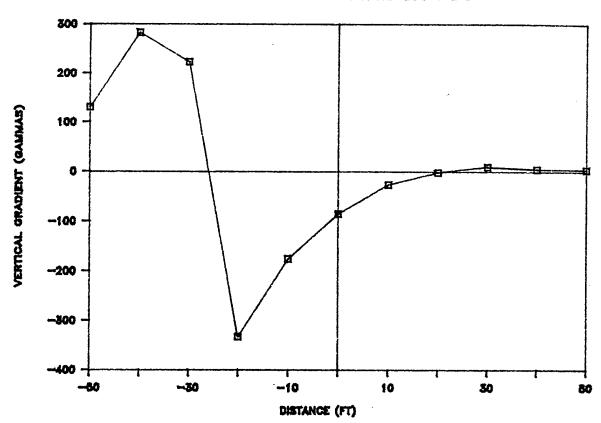
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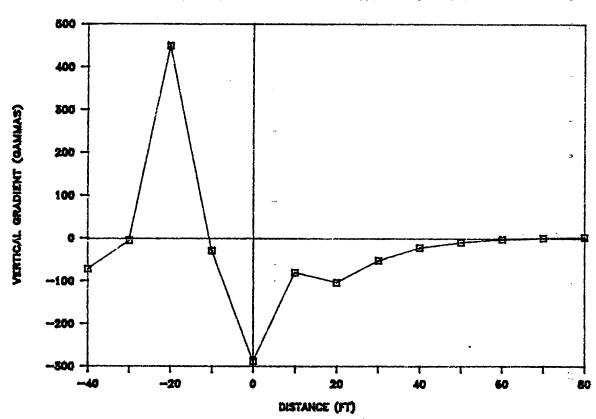
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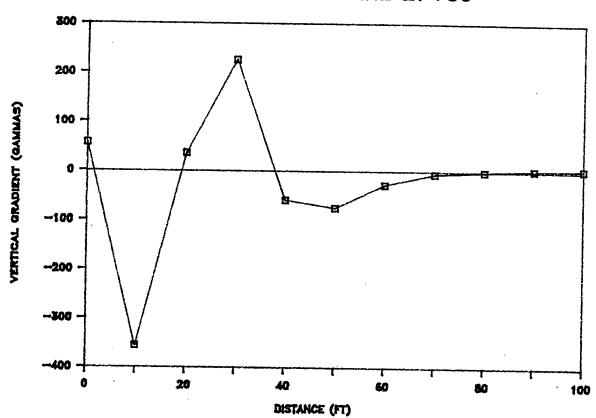




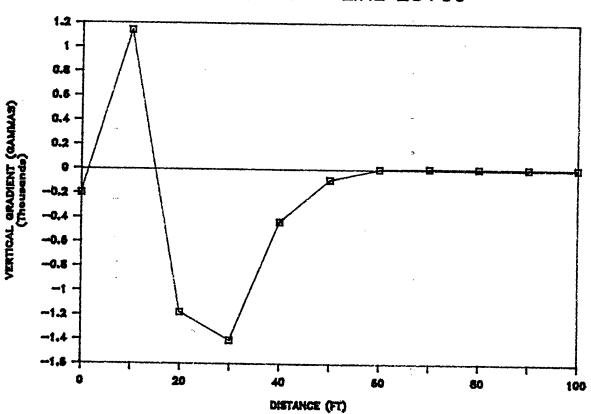
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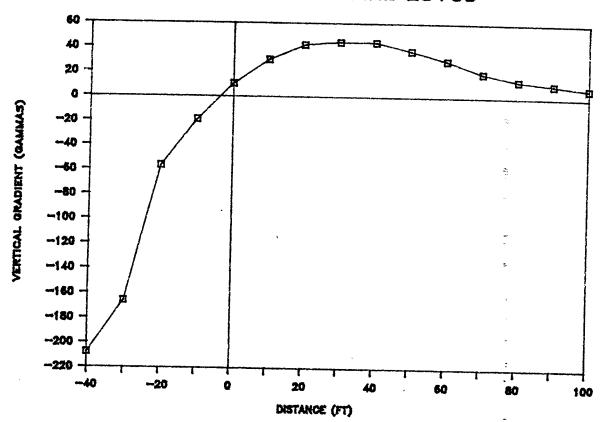
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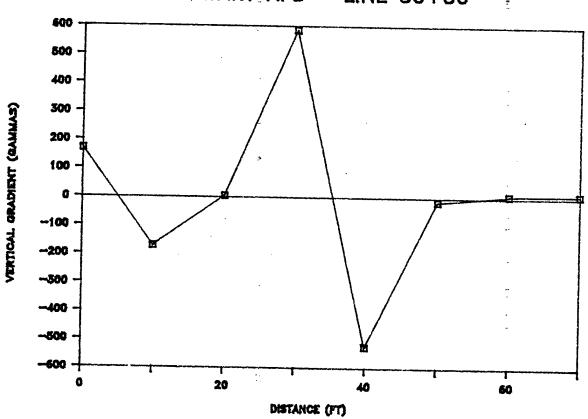
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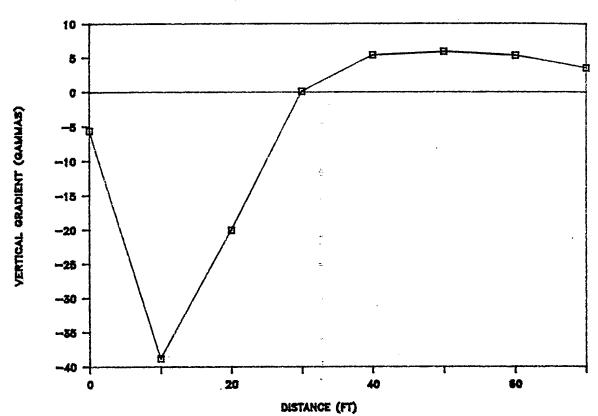
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# STEWART AFB - LINE 30+50



# STEWART AFB - LINE 30+80



APPENDIX A-2

TERRAIN CONDUCTIVITY MEASUREMENTS

# APPENDIX A-2 TERRAIN CONDUCTIVITY MEASUREMENTS

#### INTRODUCTION

Terrain conductivity surveys, also referred to as EMI (electro-magnetic induction) surveys, have traditionally been used in mineral exploration for tracing conductive ore bodies (i.e., massive sulfides). More recently, conductivity surveys have been widely used for tracing conductive contaminant plumes in groundwater. Leachate from municipal landfills tends to be much more conductive than naturally occurring groundwater. Accordingly, the shape, extent, and relative impact of a plume can be studied with terrain conductivity surveys. Such surveys have also been successfully used in studying some organic contamination in soil and groundwater, since the conductivity of most organic chemicals is much lower then naturally occurring soils and groundwater.

Because the instrument never comes in contact with the ground, data acquisition is more rapid than conventional, galvanic, earth-resistivity surveys. However, quantification of conductivity data to yield a layered-earth solution is more difficult than with conventional earth resistivity.

#### INSTRUMENTATION

Two popular instruments used in terrain conductivity surveys are the EM-31 and EM-34-3, both manufactured by Geonics, Ltd., in Mississauga, Ontario. These instruments, which have proven to be rapid-recommaissance exploration tools, are used to assess the conductivity values for soil and rock materials.

Simply stated, the instrumentation, which consists of a transmitter and receiver, operates in the following manner. The transmitter is energized by an alternating current that produces a magnetic field, designated as the primary field, Hp. This artificial magnetic field induces small electric currents to flow in the earth which, in turn, produce a secondary magnetic field, Hs. This secondary magnetic field is complexly related to the transmitter/receiver separation and to the operating frequency of the transmitter, both of which are selected by the operator. The ratio of the secondary field to the primary field (Hs/Hp), under conditions that are commonly fulfilled in the field, is linearly proportional to the terrain conductivity. It is the ratio that is sensed by the receiver and converted into conductivity values in units of millimhos per meter. Although it is difficult to define the thicknesses and "true" conductivity of individual subsurface layers, the instrument measures very precisely the "apparent" conductivity of a volume of underlying earth materials. The apparent conductivity value is comprised of the sum of the contributions from each layer that is "sampled" by the transmitter-receiver array. The volume (and therefore the depth) of earth materials sampled increases with increasing separation between the transmitter and receiver. separation is fixed with the EM-31 (3 meters), but is operator-selectable with the EM 34-3 at 10, 20, or 40 meters.

Each instrument can be used in either the horizontal dipole or vertical dipole mode. Selection of the operational dipole mode depends on the depth of

sampling desired, and the desired sensitivity of the instrument to materials at various depths, relative to the transmitter-receiver coil separation. Table A-1 shows the relationship of effective depth of exploration.

#### INTERPRETATION

The relative response of the instrument to materials at various depths can be estimated by examining Figure A-20, which shows a comparison of the relative responses for vertical and horizontal dipoles. The vertical axis describes the relative contribution to the secondary magnetic field, arising from a thin layer at a given depth, z. The horizontal axis shows how this response varies as a function of the ratio (z/s), where "z" is the depth of the thin layer described previously and "s" is the transmitter/receiver separation.

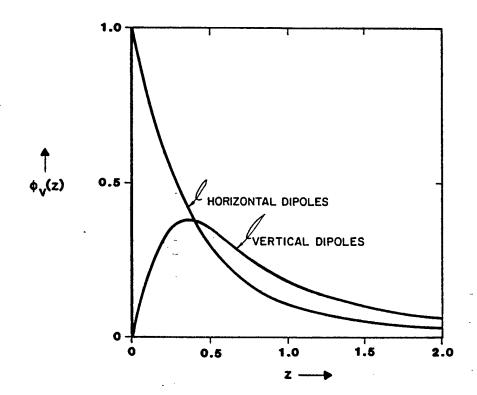
Figure A-20 demonstrates that in the vertical dipole mode, the contribution to the secondary magnetic field from near-surface materials is very small, but reaches a maximum at a depth "z" of approximately 0.4\*s. The contribution is significant, although diminished, at a depth of 1.5\*s. This depth represents the effective depth of exploration in the vertical dipole mode (Table A-1).

In the horizontal dipole mode, the contribution to the secondary magnetic field, arising from near-surface materials, is a maximum and decreases with increased depth. The contribution is also significant at a depth of about 0.75\*s. This depth represents the effective depth of exploration in the horizontal dipole mode (Table A-1).

The terrain conductivity data acquired during the present study are presented in Figure A-21. The reader is referred to the main text for a brief discussion of these data.

TABLE A-1
TERRAIN CONDUCTIVITY MEASUREMENTS
EFFECTIVE DEPTH OF EXPLORATION

Instrument	Coil Separation	Vertical Dipole	Horizontal Dipole	
EM 31	3m	4.5m	2.25m	
EM 34-3	10m 20m 40m	15m 30m 60m	7.5m 15m 30m	



Note: "\$\psi\_(z)" is the relative contribution to the secondary magnetic field intensity from material in a thin layer (dz) located at (normalized) depth "z".

"z" is the depth of the thin layer (dz) divided by the intercoil spacing between transmitter and receiver.

TERRAIN CONDUCTIVITY SURVEY

COMPARISON OF RELATIVE
RESPONSES FOR VERTICAL
AND HORIZONTAL DIPOLES

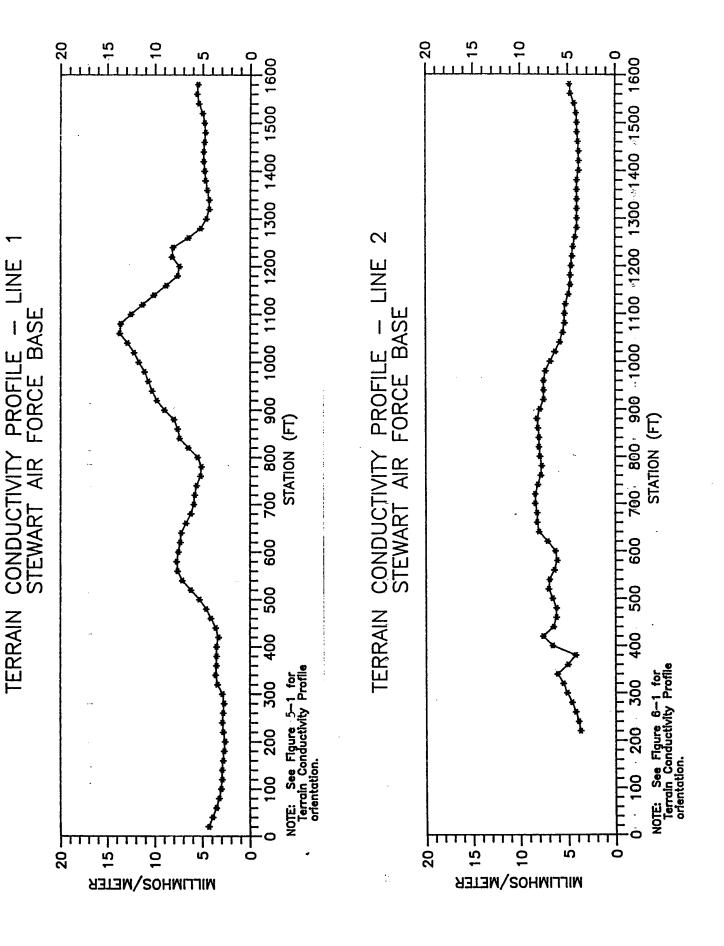


TABLE 7-3
WATER LEVEL OBSERVATIONS

### STEWART ANGB, NEW YORK

LOCATION	CASING ELEVATION (FT)	8/11/87 ELEVATION (FT)	8/14/87 ELEVATION (FT)	9/2/87 ELEVATION (FT)	9/14/87 ELEVATION (FT)	1/18/89 ELEVATION (FT)
2001111011	(12)	(11)	(4.1)	(11)	(-,-)	(2+)
JMW-101	440.21	429.63	408.77 <sup>3</sup>	429 ·	431.83	428.55
JMW-107	367.43	357.18	356.88	356.7	359.0	361.67
JMW-108	370.85	362.35	362.15	362.27	362.14	366.99
JMW-109	374.45	364.4	364.33	366.09	369.48	669.80
JTB-100A	436.6		1	405.02	404.7	405.14
JTB-100B	436.6		422.6 <sup>2</sup>	405.15	404.32	405.82
31B-100B	450.0		422.0	403.13	404 <sub>2</sub> J2	403.02
JTB-101A	440.15	406.55	403.54	407.34	406.41	407.84
JTB-101B	440.15	406.59	403.54	407.35	406.45	407.88
31b-101b	440.13	400.59	403.34	407.55	400.45	407.00
JTB-102A	430.36		392.68	393.29	393, 35	394.02
JTB-102B	430.36		395.17	393.18	396.77	397.49
JTB-102C	430.36		416.01	416.18	417.4	417.71
J1D-102C	430.30		410.01	410.10	717.4	417.71
JTB-103A	435.48		420.63 <sup>2</sup>	404.79	403.86	413.18 <sup>3</sup>
JTB-103B	435.48	***	420.12 <sup>2</sup>	404.95	403.95	407.68
015 1055	433.40		420112	101133		.07.00
JTB-104A	437.95		413.82	414.19	414583	417.45
JTB-104B	437.95		414.06	414.53	415.15	418.34
JTB-104C	437.95		419.88	420.55	424.06	425.47
01B 1040	437.73		417.00	420.55	.200	
JTB-105A	394.57	376.63	376.36	376.64	376.25	377.95
JTB-105B	394.57	377.3	377.12	378.98	377.25	378.72
JTB-105C	394.57	280.96	380.66	380.26	382.05	382.59
01D 1030	. 554.51	200.70	500.00	500.20	302103	552167
JTB-106A	389.95	371.32	371.24	371.76	371.39	373.15
JTB-106B	389.95	371.68	371.75	372.1	371.77	373.31
332 3332		3,2,00	••••	••••		
JTB-107A	367.99	356.54	356.37	356.3	357-92	360.96
JTB-107B	367.99	356.54	356.37		358.39	361.12
	50.177					_
JTB-108A	370.25	360.73	360.58	360.81	360.68	364.92
JTB-108B	370.25	360.45	360.17	360.72	360.49	364.81
	_,_,_,			<del></del>		_
JTB-109A	374.01	364.19	364.08	365.91	368.81	369.28
JTB-109B	374.01	364.19	364.05	365.77	369.48	369.82
					- · · · · · · · · · · · · · · · · · · ·	
JTB-110 <u>A</u>	364.22	346.31	346.18	346.36	346.85	352.90
JTB-110B	364.22	346.19	346.17	346.26	346.75	352.85
	<del>-</del> <del></del>				•	

<sup>1</sup> Depth below top of casing.

<sup>&</sup>lt;sup>2</sup> Not installed by this date.

<sup>&</sup>lt;sup>3</sup> May be an anomalous measurement.

#### APPENDIX B-1

SOIL BORING LOGS (INCLUDING PIEZOMETER AND MONITORING WELL INSTALLATION DIAGRAMS)

INSTALLATION F	BORING NO. JTB-100		
CLIENT - STEWART AIR	PROJECT NO. 5139-01		
CONTRACTOR EMPIRE SOILS	INVESTIGATIONS	DATE STARTED 8/	/13/87 COMPLTD. 8/14/87
METHOD Spun casing	CASING SIZE 4" I.D.	HNU TIP 10.6	PROTECTION LEVEL B C D
GROUND EL 433.93	SOIL DRILLED 45.61	ROCK DRILLED 10,	FT BELOW GROUND 55.6
LOGGED BY J. Urquhart	CHECKED BY FFB	DATE 11-10-87	
CLP CLP CCLP CCLP CCLP CCLP CCLP CCLP C	SOIL/ROCK E	CHOCAL LITHOLOGY	SOIL CLASS OR ROCK FRACTURES  A  WELL DATA EL. (FT)
Bkg S-1 Si To Ab	psoil & topsoil, lation fill mate ll loose to	ty fine sand & o o o o o o o o o o o o o o o o o o	SM AA
	sal Till silt with widely gr	grey fine sandy some gravel, aded, moist, e basal till.	24 50 3510685
10 —	with trac graded, m	sandy silt e gravel, widely is a constant of the constant of t	K.; ML
15 — S-4 Z 0	with litt gravel, w	sandy silt le to some idely graded, ry dense, basal	A ML 24100 100
20 —   S-5 ×   0		Δ Δ	ML 100 100
25 — S-6 = 0 	sandy sil to some s widely gr	to medium t with little	100 100 A ML 100 100
30 -	٠.	A A A A A A A A A A A A A A A A A A A	27 30 100 100 ML 27 30 100 100
35 -		Ā. [ A ]	A 2 28 30 100 67 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
40 - 40			
* U= THIN WALL S= SPLIT SPO	ON R=ROCK		E.C. JORDAN CO

METHOD Spun casing CASING SIZE 4" I.D. HNU TIP 10.6 PROTECTION LEVEL B C C	INSTALLATION RESTORATION PR	OGRAM	BORING NO. JTB-100
METHOD Spun casing CASING SIZE 4" I.D. HNU TIP 10.6 PROTECTION LEVEL B C C SHOUND EL 433.93 SOIL DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  OGGED BY J. Urquhart CHECKED BY FFB DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 DATE 11-10-87  Soll DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6 ROCK DRILLED	LIENT - STEWART AIR NATIONAL GUARD BAS	E	PROJECT NO. 5139-01
SOIL DRILLED 45.6' TO 55.6'  SOIL DRILLED 45.6' BOOK DRILLED 10' FT BELOW GROUND 55.6  BLOWS/G-IN N N N N N N N N N N N N N N N N N N	CONTRACTOR EMPIRE SOILS INVESTIGATIONS	3/87 COMPLTD. 8/14/87	
SOIL DRILLED 45.6 ROCK DRILLED 10 FT BELOW GROUND 55.6  DATE 11-10-87    CHECKED BY FFB   DATE 11-10-87    C	METHOD Spun casing CASING SIZE 4" I.D.	HNU TIP 10.6	PROTECTION LEVEL B C D
Soll-ROCK DESCRIPTION  Born Soll Soll Soll Soll Soll Soll Soll Sol	50" 50" 50"	ROCK DRILLED 10'	FT BELOW GROUND 55.6
Soll/ROCK DESCRIPTION    Solid   Solid	OGGED BY J. Urguhart CHECKED BY FFB	DATE 11-10-87	
· ┩ │ │││││ │	SOIL/ROCK DE  Soil Bkg S-9 S-10 S-10 S-10 S-10 S-10 S-10 S-10 S-10	SCRIPTION  y silt with race gravel. has thin Widely graded, has thin e medium dense A. A. Ey extremely e, Fe staining surfaces,	SOIL CLASS ON ROCK FRACTURES  NOR ROCK A 12 60 A 12 60 A 12 60 A 13 60 A 14 60 A 15 60 A 16 60 A 17 60
	-		- <del> - - - - - - - - - - - - - - - - - </del>
-            <del>                          </del>	* U= THIN WALL S= SPLIT SPOON R= ROCK		E.C. JORDAN CO.

INSTAL	LATION I		<u> </u>	DRING NO.			
CLIENT - ST	EWART AIR	NATIONAL GUARD BAS	E		PR	OJECT NO. 5	139-01
CONTRACTOR E	MPIRE SOILS	INVESTIGATIONS	DATE STARTED	8_4	<del>-87</del>	CCMPLTD.	8-7-87
METHOD HSA/Sp	n casing	CASING SIZE 4" I.D.	HNU TIP 10.6		PRO	TECTION LEVEL	в С <u>о</u>
	7.64	SOIL DRILLED 37.7	ROCK DRILLED	8.8	FT	BELOW GROUND	46.5
LOGGED BY S. P	inette	CHECKED BY FFB	DATE 11-10-	-87	Pa	ge 1 of 2	
	GC RECOVERY FINU LIEADSPACE (Ppm)	SOIL/ROCK DE	SCRIPTION	GRAPHICAL LITHOLOGY	OR ROCK FRACTURES	BLCWS/6-iN or RQD %	WELL DATA EL. (FT)
10- 15- 20- 30- 30- 30- 30- 30- 30- 30- 3	ρς Fi Fi Ba	ne Sand Light yellow grass roots, with little trace gravel.  ne Sand Olive brown, clay & coarse gravel, very gap graded  Olive gray with medium grave coarse sand, moderately firm, moist  As above with sand	rish brown with loose dry r very fine & coarse sand, silty, trace se sand & dense, dry, with fine to el, fine to some clay, blastic, very		SW	8 31 6570  8 31 6570  - 50 44 63  - 50 44 63  38 63 80 -  100/0 2	A A A A A A A A A A A A A A A A A A A
- 35- - - -	0		t mixed with nale fragments	Δ. Δ		100/0.2	
R-1	, , , , , , , , , , , , , , , , , , , ,		rwell cleaved, ffaces stained, ion, cleavage	=	500	0%	W

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INSTALLATION F	BORING NO. JTB-101		
CLIENT : STEWART AIR	NATIONAL GUARD BASE		PROJECT NO. 5139-01
CONTRACTOR EMPIRE SOILS	INVESTIGATIONS	DATE STARTED 8/	4/87 CCMPLTD. 8/7/87
METHOD HSA/Spun casing	CASING SIZE 4" I.D.	HNU TIP 10.6	PROTECTION LEVEL B C D
GROUND EL 437.64	SOIL DRILLED 37.7'	ROCK DRILLED 8.8"	FT BELOW GROUND 46.5
LCGGED BY S. Pinette	CHECKED BY FFB	DATE 11-10-87	Page 2 of 2
6-LEPTH  (F-T)  HINU  AMB. AIR  SAMIP NO.  & TYPE NO.  & TYPE NO.  CIP  GC  RECOVERY  HNU  HENU	SOIL/ROCK DES	NOITHOLOGY	SOIL CLASS OR ROCK FRACTUIRES OR DO
140 ( ) (111 1 1 1 1	Sandstone intershale at 42.6 t	ell cleaned @ ===================================	
50 -			
* U= THIN WALL S= SPLIT SPC	ON R= ROCK		E.C. JORDAN CO

	<del>- i</del>	PROJE	CT NO E	139-01		
	NATIONAL GUARD BASE					
ONTRACTOR EMPIRE SOILS			8-7-8	<u> </u>		8-10-8
ETHOD HSA	CASING SIZE 4.25" I.D. HNU TIP 10.6				ION LEVEL	
ROUND EL 437.83	SOIL DRILLED 32.5		0.2	FI BEL	OW GROUNI	32.
OGGED BY T. Longley	CHECKED BY FFB	DATE 11-10-				
(FT) HINU AMB. AIR SAMP NO. & TYPE NO. SAMPLE CI P GC RECOVERY HNU HIEADSPACE	SOIL/ROCK DES		GRAPHICAL LITHOLOGY SOIL CLASS	OR ROCK FRACTURES	_CWS/6-iN	WELL DATA
Bkg	See log of JTB-101 for soil/rock descrip	1013101				

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INSTALLATION I	RESTORATION PRO	OGRAM	BORING NO. JTB-102
	NATIONAL GUARD BASE		PROJECT NO. 5139-01
CONTRACTOR EMPIRE SOILS		DATE STARTED 8/11/	787 COMPLTD. 8/13/87
METHOD Spun Casing	CASING SIZE 4" I.D.	HNU TIP 10.6	PROTECTION LEVEL B C D.
GROUND EL 427.62	SOIL DRILLED 51.6'	ROCK DRILLED 10'	FT BELOW GROUND 61.6
LOGGED BY J. Urquhart	CHECKED BY FFB	DATE 11-10-87	
DEPTH (FT) HNU AMB. AIR SAMP NO. & TYPE NO. SAMPLE CLP GC RECOVERY HNU HRADSPACE (ppm)	SOIL/ROCK DES		OR ROCK FRACTURES  RELL DATA  EL. (FT)
Bkg   S-1	Ablation fine sandy ill gravel, tra sand, wide loose  ilt Brownish gravel, wi slightly m dense basa Analytical Sam ilt Dark grey fine sand ill widely gra very dense	organics, r brownish grey silt, trace ace coarse ly graded, dry  orey silt with sand, some dely graded, oist, very l till ple JTB1021201 silt with trace some gravel, ded, moist, basal till of A.	ML 30 5953 70 112 36 5665 51121
$\begin{bmatrix} 25 & & & & \\ & & & & \\ & & & & \end{bmatrix} \begin{bmatrix} S-4 & & & \\ & & & \\ & & & \end{bmatrix} \begin{bmatrix} S & & \\ & & & \\ & & & \end{bmatrix}$	ravelly Dark grey lilt trace fine lasal gravel, mo lill dense, bas	sand much ist, very	ML 2255 64 100 119
30 — S-5 X \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	fine sand Isolated l lenses, mo	silt with trace $\lambda$ much gravel. ight grey clay ist, cohesive, very dense,	ML 5970 81100:151
	trace fine clay, some	grey silt with a sand, little gravel. Moist a, basal till	ML 43 55 68 100123
* U= THIN WALL S= SPLIT SP	OON R=ROCK ·		E.C. JORDAN CO.

INSTALLATION	BORING NO. JTB-102			
CLIENT . STEWART AIR	NATIONAL GUARD BASI	E	PROJECT NO. 5139-01	
CONTRACTOR EMPIRE SOILS	CONTRACTOR EMPIRE SOILS INVESTIGATIONS DATE STARTED			
METHOD Spun casing	CASING SIZE 4" I.D.	HNU TIP 10.6	PROTECTION LEVEL B C D	
GROUND EL 427.62	SOIL DRILLED 51.6	ROCK DRILLED 10'	FT BELOW GROUND 61.6'	
LOGGED BY J. Urquhart	CHECKED BY FFB	DATE 11-10-87		
S-7 N S. S. (1)  45—  S-8 N S. S. (1)  50—  50—  50—  50—  50—  50—  50—  50	ilt clay, trace for much gravel, moist, very of till  1.6' hale Dark grey showeathered, for bedded.  Roller bit 5  B.O.B. 61.6'	y silt, trace fine sand, widely graded dense, basal AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	SOIL CLASS	

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A Section A

11	NSTALL	ATION F	RESTOR	ATION PRO	OGRAM			PRING NO. JTB-10	
CLIENT	. STE	WART AIR	NATIONAL	GUARD BASE			PR	OJECT NO. 5139-01	
CONTRACTOR EMPIRE SOILS INVESTIGATIONS DATE STARTED 8/1				8/1	2/87	COMPLTD. 8/14/8	37		
METHOD	Spin casi	ng/coring	CASING SIZ	E 4" I.D.	HNU TIP 10.6		PRO	TECTION LEVEL B C	D
GROUND			SOIL DRILL	ED 41'	ROCK DRILLED	10'	FT	BELOW GROUND 51	.4'
LOGGED			CHECKED E	BY FFB	DATE 11-10-	87			
DEPTH (FT) HNU AMB. AIR		GC RECOVERY HNU HEADSPACE (Ppm)		SOIL/ROCK DES		GRAPHICAL LITHOLOGY	OR ROCK FRACTURES	BLOWS/6-IN VER PROPERTY OF ROD % N M H	/
5	S-1 XY	Bkg S	ill ilt & and asal ill An	gravel, dry tan gravell tion  Brown, trac trace clay damp, non-	se sand, trace y, loose, over ly, silty sand ce gravel, well graded, clastic, very sive structure	0.000	ML/ SM SM	8 3350/0.0 A A A A A A A A A A A A A A A A A A	-
10-	S-3	a.t Bkg			coning, water ned grey at			111 21 4267 63	• ·
15-	s-4	s Bkg	andy Silt	non to sli	e fine gravel, ghtly plastic, ded, dense,		ML		
20 —	. s-5	4.6 Bkg		very dense cemented t	ered bedrock, , damp,	Δ. Δ. Δ. Δ. Δ.		3289100/0.4	,
25 -	S-6 X	Bkg		As above b sand	ut with little	1		13 39 83100/	
30 —	S-7	β Bkg		trace grav	e coarse sand, el, trace clay sorted, very -plastic, damp				- - - -
35-	S-8 X	a. Bkg	2:16 C \	sorted fir		Δ . Δ . Δ . Δ . Δ . Δ . Δ . Δ . Δ . Δ .		33 57100/.3	 - -
1, 41	S-9	o A Bkg	Silty Sand	Yellowish- little coa fragments	brown with rse shale damp	Α.Δ	SM	29 47100/.1	_
# U=	THIN WALL	S- SPLIT SPC	OON R-RO					E.C. JORDAN CO.	

METHOD Spin casing-coring CASING SIZE 4" I.D. HNU TIP 10.6  GROUND EL 432.54 SOIL DRILLED 40' ROCK DRILLED 11.	PROJECT NO. <b>5139-01</b> 3/12/87 COMPLTD. 8/14/8
METHOD Spin casing-coring CASING SIZE 4" I.D. HNU TIP 10.6  GROUND EL 432.54 SOIL DRILLED 40' ROCK DRILLED 11.	0/14/0
GROUND EL 432.54 SOIL DRILLED 40 ROCK DRILLED 11.	
	PROTECTION LEVEL B C
OGGED BY T. Longley CHECKED BY FFB DATE 11-10-87	*
T. Longley  1. Longley  1. Longley  1. Longley  3. SAMP NO.  3. SAMP NO.  40  40  40  40  40  Extremely weathered ped-12.	A. SM

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INSTALLATION	RESTORATION PRO	OGRAM	BORING NO. JTB-104
CLIENT : STEWART AIR		PROJECT NO. 5139-01	
CONTRACTOR EMPIRE SOILS	SINVESTIGATIONS	DATE STARTED 8/11	/87 COMPLTD. 8/12/87
METHOD Spin casing-cori		HNU TIP 10.6	PROTECTION LEVEL B C D
BROUND EL 435.54	SOIL DRILLED 27'	ROCK DRILLED 101	FT BELOW GROUND 37.0
OGGED BY T. Longley	CHECKED BY FFB	DATE 11-10-87	
	SOIL/ROCK DES	ts, moist, '• o'	SOL CLASS SOL CLASS OR BOOK AN AN A
5-1   S-1   MS   MS   MS   MS   MS   MS   MS   M	Ablation fine sand, Till trace coars loose - hit  Poor recove angular coa gravel - re drive shoe	ery of wash- arse sand, ock stuck in	28 23 18 15 41
S-3 X	Basal coarse sand gravel, wide non-plastic massive, votation of the sandy Gray, trace coarse sand gravel, with the sand gravel, with	dely graded, c, damp, ery dense till A.A. A.A. A.A. A.A. A.A. A.A. A.A. A	ML 22 3622 40 58  ML 22 2517 17 42
1	24.5' Bedrock Shale & Shale is d	ark gray to	98 100/.3
	Silty Sand (Weathered Bedrock) Shale Slack to g very broke & randomly	velly in size, thered w/little. This is over wish brown, damp, very rayish black, n w/numerous criented	\$\frac{1}{2}\frac{1}{2
35 — R-3	core axis.	ling @ 550 to	
40			
* U= THIN WALL S= SPLIT SP	OON R=ROCK		E.C. JORDAN CO

INSTALLATION RESTORATION PROGRAM						PRING I		JTB-10
CLIENT - STEWA	RT AIR	NATIONAL GUARD BASE	· ·····		<u> </u>	OJECT NO		39-01
CONTRACTOR EMPIRE	SOILS		DATE STARTED	8/7/		COMPLI		
METHOD Spin casing	g-corin		HNU TIP 10.6			TECTION L		
GROUND EL 392.69		SOIL DRILLED	ROCK DRILLED		FT	BELOW G	ROUND	38.0
LOGGED BY J. Long Le	ey & art	CHECKED BY FFB	DATE 11-10-	87				·
J. Ordana	Got Tr. Si Sar Gr:	SOIL/ROCK DES	ine sandy gravel and ose, sub- ation till silty sand, to dense, estructure, avel TB1050701 ve silty sand el, trace clay dense, ish black avel, some ase, slightly red shale till)	GRAPHICAL O O O O LITHOLOGY	ML SM- GM SM- GM	BLOWS/0	N 3 50/0.	WELL DATA
35-					يمرا	1-1-1-		:】
-  <u> </u>   R-4	l R	.O.B. @ 38.0'			B~			]::軒
<b></b>		. O.D. 6 30.0						

INSTALLATION RESTORATION PROGRAM	BORING NO. JTB-106
CLIENT STEWART AIR NATIONAL GUARD BASE	PROJECT NO. 5139-01
	0/87 CCMPLTD. 8/4/87
	PROTECTION LEVEL B C D
GROUND EL 386.97 SOIL DRILLED 19.51 ROCK DRILLED 10.51	FT BELOW GROUND 30.0
LOGGED BY S. Pinette CHECKED BY FFB DATE 11-10-87	Page 1 of 1
	Page 1 of 1  SLCWS/6-IN or Or RQD % PAGE 1 A A A A A A A A A A A A A A A A A A
* U= THIN WALL S= SPLIT SPOON R= ROCK	E.C. JORDAN CO

INSTALLAT	ION F	RESTORAT	ION PRO	OGRAM		ВО	RING N	O	JTB-10
		NATIONAL GL			-	PRO	DJECT NO	. 513	39-01
		INVESTIGATION		DATE STARTED	7/30	/87	COMPLT	D. 8,	/3/87
METHOD Spin casing		040000000		HNU TIP 10.6		PRO	TECTION LE	VEL E	3 C [
OPIN CASING	-corri	2		ROCK DRILLED	9.4	FT	BELOW GR	DNDC	19.4
304.17	•	CHECKED BY		DATE 11-10-8	37				
GROUND EL 364.79  LOGGED BY L. Heale	HADSPACE (pmq) Si C F AP II 6 Pm 1 Pm	SOIL DRILLED CHECKED BY  So  lty Sand olluvium)  ne Sand lation 11	Tan silty medium gr loose, br  Brown fin silt, tra coarse gr medium de slightly  Gray silt weathered shale gra cohesive (Top of r	CRIPTION  sand, trace avel & roots, own moist  e sand, little ce medium - avel, moist, nse, mottled, stratified  y sand, medium-coarse vel, moist  ock 9.4')  grayish black ghly weathered ing, clay		SON ON BOCK  SON ON BOCK  FRACTURES	BLOWS/6-	N N 5 16	WELL DATA F. 61
30-			- -	•					<del> </del>
35—			·						
# U= THIN WALL S=S	PLIT SPO	ON R=ROCK	=			<b>5</b>	E.C. JORI	NAC	CO

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INSTALLATION RESTORATION PROGRAM  CLIENT : STEWART AIR NATIONAL GUARD BASE  CONTRACTCR EMPIRE SOILS INVESTIGATIONS DATE STARTED  METHOD 4.25" HSA CASING SIZE N/A HNU TIP 10.6  GROUND EL 364.14 SOIL DRILLED * 21.0 ROCK DRILLED  LOGGED BY L. Healey CHECKED BY FFB DATE 11-10.  EL STEWART AIR NATIONAL GUARD BASE  CONTRACTCR EMPIRE SOILS INVESTIGATIONS  DATE STARTED  ROCK DRILLED * 21.0 ROCK DRILLED  ACCIONATION OF THE STARTED BASE  SOIL DRILLED * 21.0 ROCK DRILLED  ACCIONATION OF THE STARTED BASE  SOIL DRILLED * 21.0 ROCK DRILLED  ACCIONATION OF THE STARTED BASE  SOIL DRILLED * 21.0 ROCK DRILLED  ACCIONATION OF THE STARTED BASE  SOIL DRILLED * 21.0 ROCK DRILLED  ACCIONATION OF THE STARTED BASE  SOIL DRILLED * 21.0 ROCK DRILLED  ACCIONATION OF THE STARTED  BASE  SOIL DRILLED * 21.0 ROCK DRILLED  ACCIONATION OF THE STARTED  ACCIONATION	N -87	13 21 18 22 40 .
METHOD 4.25" HSA CASING SIZE N/A HNU TIP 10.6  GROUND EL 364.14 SOIL DRILLED * 21.0 ROCK DRILLED  LOGGED BY L. Healey CHECKED BY FFB DATE 11-10.  LOGGED BY L. Healey SOIL/ROCK DESCRIPTION  See log of JTB-107 for soil/rock descriptions.  Analytical sample JMW-107 0401  taken from 4.5-7.5'	N 87 (GRAPHICAL 8-0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	PROTECTION LEVEL B C D  FT BELOW GROUND 9.5  SSAUR BLCWS/6-IN VALVE (L)  N M III  13. 21. 18. 22.40  15. 21  15. 21  15. 21  15. 21  15. 21  15. 21  15. 21  16  17  18  19.
METHOD 4.25" HSA CASING SIZE N/A HNU TIP 10.6  GROUND EL 364.14 SOIL DRILLED * 21.0 ROCK DRILLED  LOGGED BY L. Healey CHECKED BY FFB DATE 11-10.  THE REPORT OF THE REPORT	N 87 (GRAPHICAL 8-0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	PROTECTION LEVEL B C D  FT BELOW GROUND 9.5  SSHUD JOHN STATE OF THE S
GROUND EL 364.14 SOIL DRILLED * 21.0 ROCK DRILLED LOGGED BY L. Healey CHECKED BY FFB DATE 11-10.  LEGGED BY L. Healey CHECKED BY FFB DATE 11-10.  See log of JTB-107 for soil/rock descriptions.  Analytical sample JMW-107 0401 taken from 4.5-7.5'	87 CO O O CO O O O O O O O O O O O O O O	SSOIL CLASS OR BCCASS-EN OR BCC
LOGGED BY L. Healey CHECKED BY FFB DATE 11-10-  LEGGED BY L. Healey CHECKED BY FFB DATE 11-10-  LEGGED BY L. Healey CHECKED BY FFB DATE 11-10-  SOIL/ROCK DESCRIPTION  See log of JTB-107 for soil/rock descriptions.  Analytical sample JMW-107 0401 taken from 4.5-7.5'	87 CO O O CO O O O O O O O O O O O O O O	SOIL CLASS OR BCCK Step 1 Soil CLASS OR BCCK
SOIL/ROCK DESCRIPTION  See log of JTB-107 for soil/rock descriptions.  Analytical sample JMW-107 0401 taken from 4.5-7.5'	O O O O O O LITHOLOGY	13 21 18 2240. 15 21
See log of JTB-107 for soil/rock descriptions.  Analytical sample JMW-107 0401 taken from 4.5-7.5'	0 0 0 0 0 0	13 21 18 2240. 15 21
descriptions. Analytical sample JMW-107 0401 taken from 4.5-7.5'	0 0 0 0 0	13 21 18 22 40
*Note: Moved borehole location 5 times before boulder-free location was found. 21' of soil drilled.		

	RESTORATION PRO		BORING NO. JTB-1
	R NATIONAL GUARD BASE		PROJECT NO. 5139-01
ONTRACTOR EMPIRE SOIL			3/87 CCMPLTD. 8/4/87
ETHOD HSA/Coring	CASING SIZE 4.25" I.D		PROTECTION LEVEL B C
ROUND EL 367.34	SOIL DRILLED 12.81	ROCK DRILLED 10'	FT BELOW GROUND 22.
DGGED BY T. Longley	CHECKED BY FFB	DATE 11-10-87	
SAMP NO.  SAMP NO.  SAMP NO.  SAMP NO.  SAMP NO.  SAMP E  CI P  GC  GC  GC  RECOVERY  HNU  SPECOVERY  FECOVERY  FECOVERY  RECOVERY  RECOVERY	andy Silt Dark brown to	light brown 0	SOIL OR SOIL O
	Topsoil w/few distinct damp, firm; horizontal; horizontal; horizontal; fractures w/structure  Travelly Tan & gray, many distinct	t mottles, vertical &	SM 4 10 1317 23 1
	Fravelly Tan & gray, we many distinct orange mottle plastic, moistill  As above but mottles Auger refusa	w/few, faint	
-	2.8' Bedrock Shale Blackish grabroken with	y, extremely	
0- R-2 1 12%	weathering & cleavage sur Cleavage sur 66° to core	faces. faces are at	
		ough in hole	
25—	B.O.B. @ 22.8'		
	-		

INSTALLATION RESTORATION PROGRAM	BORING NO. MW-108
CLIENT - STEWART AIR NATIONAL GUARD BASE	PROJECT NO. 5139-01
CONTRACTOR EMPIRE SOILS INVESTIGATIONS DATE STARTED	CCMPLTD.
METHOD HSA CASING SIZE 4.25" I.D. HNU TIP 10.6	PROTECTION LEVEL B C D
GROUND EL 368.34 SOIL DRILLED 12' ROCK DRILLED N.A.	FT BELOW GROUND 12
Longley T. Longley 1125	
LOGGED BY T. Longley CHECKED BY FFB DATE 11-10-87	SOIL CLASS OLD A MELL DATE OF SOIL CLASS OLD A MELL DATE OLD A
* U= THIN WALL S= SPLIT SPOON R= ROCK	E.C. JORDAN CO

CLIENT - STEWART AIR	R NATIONAL GUARD BASE	3	PROJECT NO. 5139-01
CONTRACTOR EMPIRE SOILS			4/87 COMPLTD.
	Taxania arre	HNU TIP 10.6	PROTECTION LEVEL B C
	SOIL DRILLED 10.4	ROCK DRILLED 91	ET DELOW ORDUNO
ROUND EL 371.72			FI BELOW GROUND 19
OGGED BY T. Longley	CHECKED BY FFB	11-10-07	(0) (0)
S-2   Bkg   S   S   S   S   S   S   S   S   S	over gravel, dry andy Silt soil over to structure to structure to structure to staining or the structure to some gradense, dry widely gradense, dry widely gradense, and 6 - spin to some gradense, and 6 - spin to sp	to tan, trace v loose; top- olocky v/oxidation n ped faces  orown, trace evel, very to damp, ded, massive distinct uger refusal n casing  Ly laminated, di, very broken tion on	SM/ 3 6 1112 17 4 4 4 5 1 1 1 2 1 7 4 4 5 1 1 1 2 1 7 4 5 1 1 1 2 1 7 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

INSTALLATION	RESTORATION PRO	OGRAM	BORING NO. JTB-110
CLIENT STEWART AIR	NATIONAL GUARD BASE		PRCJECT NO. 5139-01
CONTRACTOR EMPIRE SOILS		DATE STARTED 7/2	29/87 CCMPLTD. 7/29/87
METHOD HSA	CASING SIZE 4大小	HNU TIP 10.6	PROTECTION LEVEL B C D
GROUND EL 361.34	SOIL DRILLED 18.91	ROCK DRILLED 7.3	FT BELOW GROUND 26.2
CGGED BY J. Urquhart	CHECKED BY FFB	DATE 11-10-87	
(FT) IINU AMB. AIR SAMP NO. 8 TYPE NO. SAMPILE CI P GC GC GC RECOVERY HANU ILEADSPACE	SOIL/ROCK DES	GRAPHICAL LITHOLOGY	SOIL CLASS OR ROCK FRACTURES OR NO DO NO D
Bkg S-1	lty Fine Gray to brown, some gravel  lty Fine Gray to brown little grave dense, dry  lty Sand Dark gray, loose to destrill  Gray to blathinly lami soft, broke broken, sli	trace gravel, nse, dry  ckish gray; nated, medium n to very ght to moderate with many cleavage is bedding @ ly 700 foot  BOTO  O.O.  O.O.	
30-			

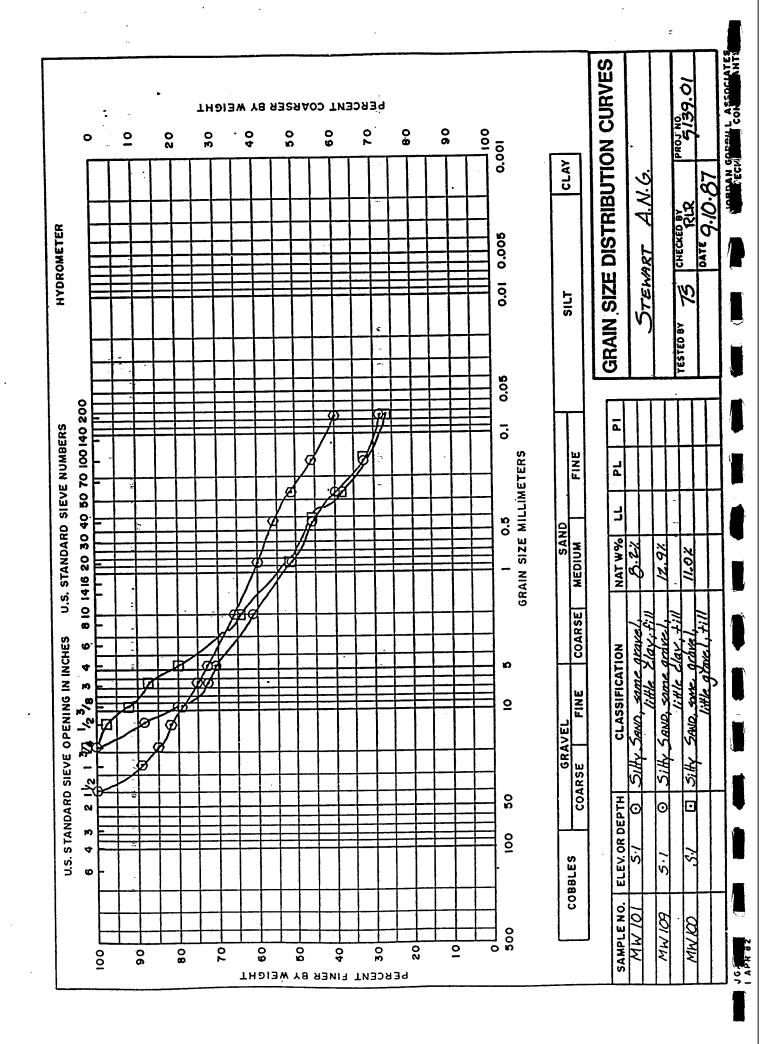
.

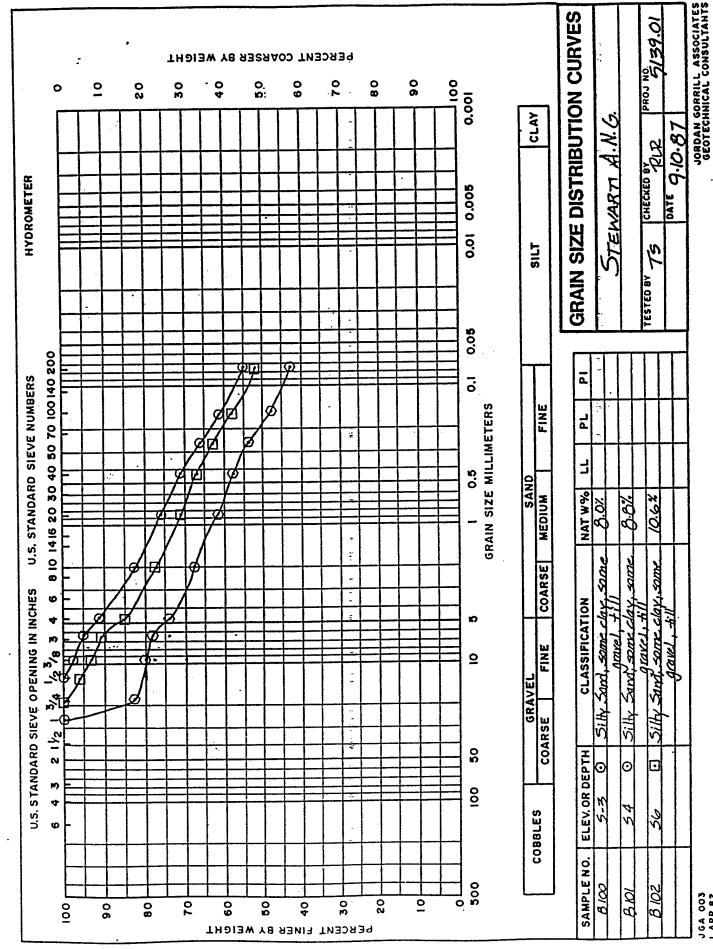
#### APPENDIX C

#### LABORATORY DATA

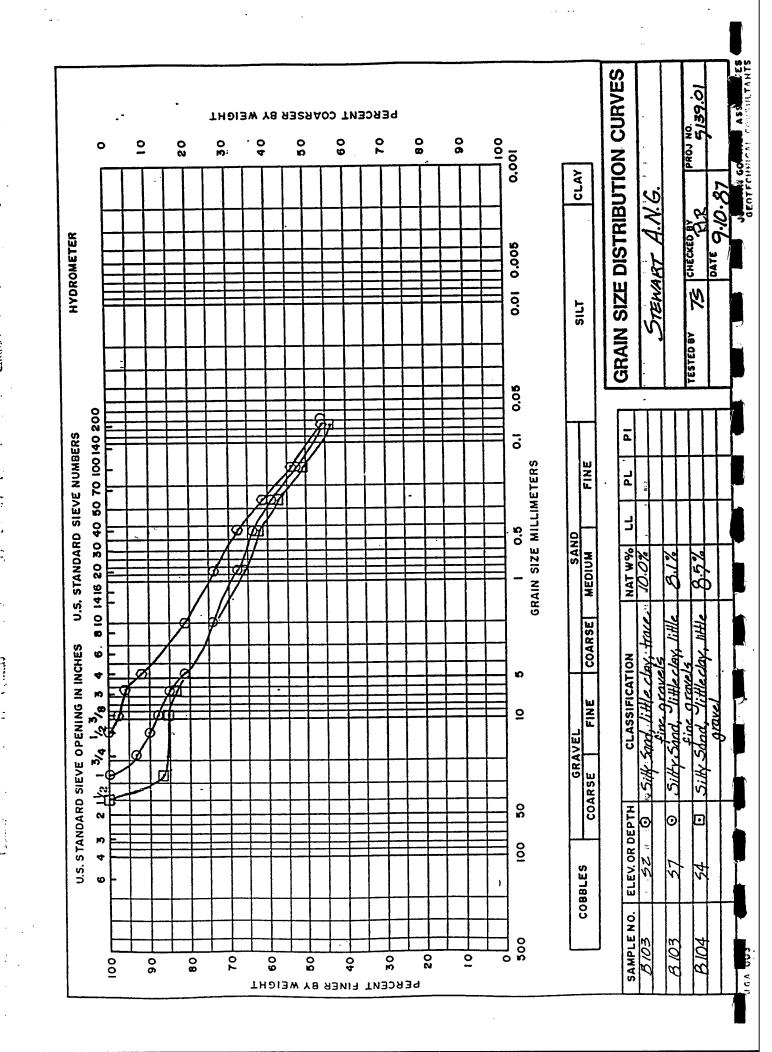
C-1 GRAIN-SIZE DISTRIBUTION CURVES C-2 SIEVE ANALYSIS DATA

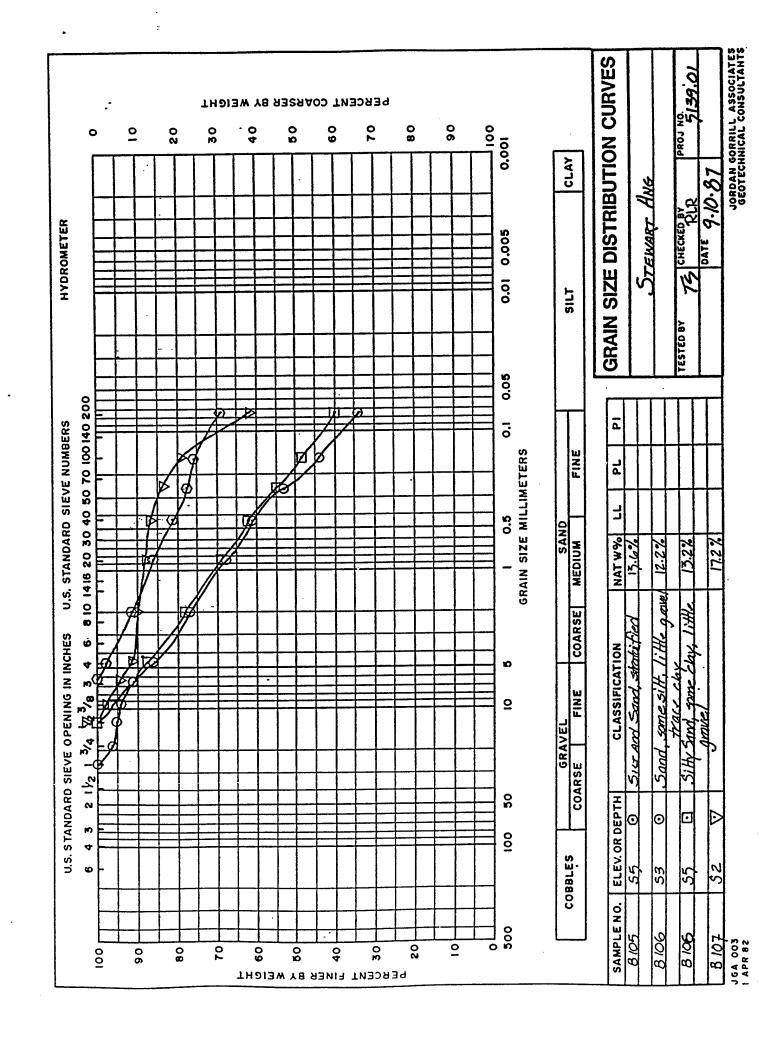
APPENDIX C-1
GRAIN-SIZE DISTRIBUTION CURVES

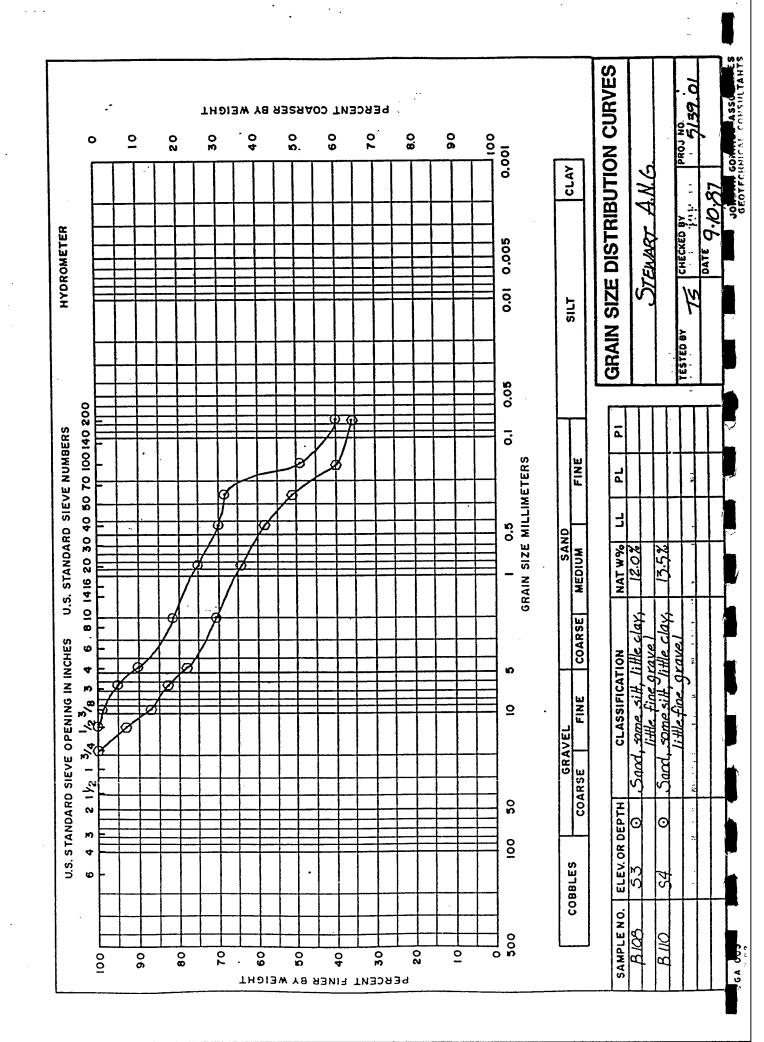




JGA 003







APPENDIX C-2 SIEVE ANALYSIS DATA "LEVEL D"

## WATER CONTENT - GENERAL

	.·					E 9		
	PROJECT STEWART	- /	1N/-		JOB	NO	5/37.0	/
r	ROUGOI						,	
-	•							<del></del>
8	ORING AND SAMPLE NO.		MW101 51	12 PCI WM		81 <b>00</b> 53	B101-54	
	TARE NO.		34	106	75	59	50	<u> </u>
45	TARE PLUS WET SOIL		207.4	26.7	242.5	251.6	229.6	769.
RAN	TARE PLUS DRY SOIL		289.7	207.4	224.5	237.3	215.3	249.0
WEIGHT IN GRAMS	WATER	w <b>,</b>	17.7	19.3	18.0	-14.3	14.3	20.7
GHT	TARE		72.7	58.Z	61.1	58.8	53.0	52.8
WE	DRY SOIL	Ws	217.0	149.2	163.4	178.5	162.3	176.2
	WATER CONTENT, %	w	8.2	12.9	11.0	8.0	8.8	10.5
SAN	PLE DESCRIPTION						<del>T</del>	
	ORING AND SAMPLE NO.		B103 5Z	BD3 57	BX4 54	B10555	B12653	
	TARE NO.		60	8	4.	53	70	3
AS.	TARE PLUS WET SOIL		279.3	234.8	261.8	153.3	15	263:
WEIGHT IN GRAMS	TAREPLUS DRY SOIL		259.1	221.1	2454	167.3	24.1	238.0
N.	WATER	w <sub>w</sub>	20.7	13.7	16.4	155	25.0	24.7
GHT	" TARE		52.5	52.1	53.4	_53.7	73.6	5:9
WE	DRY SOIL	W s	206.6	169.0	192.0	114.1	205.5	166
	WATER CONTENT, %	w	10.0	8.1	8.5	.13.6	12.2	13.2
SAN	APLE DESCRIPTION					-	<del></del>	<del></del>
	BORING AND SAMPLE NO.		B107 5Z	BD353	B.110 54			
	TARE NO.		25	19	51			
MS	TARE PLUS WET SOIL		234.9		237.2			
GRA	TARE PLUS DRY SOIL		210.5	213.8	215.3		<u> </u>	
Z	WATER	w <sub>w</sub>	24.4	189	21.9			
WEIGHT IN GRA	TARE -	`	68.7	55.7	52.8			<u> </u>
WE	DRY SOIL	Ws	141.8	158.1	162.5	-		
	WATER CONTENT, %	w	17.2	12.0	13.5			<u> </u>
SA	MPLE DESCRIPTION							
RE	MARKS high 17.2(8.107)	ضا (	w 8.0(1	g1003)	AVE = 1	1.2%		
TE	CHNICIAN	5 co	MPUTED BY-		15	CHECKED BY.		
JGA C							JORDAN GORR	ILL ASSOCI

PROJECT C EWART	λ.,,
_ EWAP	ナベスピ
	GRAI

CHK. BY RIR

JOB Nº 5/39.(! DATE 8.3:.57

### GRAIN SIZE ANALYSIS

	CAMPI	FID:	RORING	M		9		ABER	• •	5-1	DEPTH		
1		URE CO	<del></del>	Π				t. RET				i	ביביביביביביביביביביביביב
					215	VE	Ľ	TARE		HOUT TARE	70 REI	% PASS	CORRECT'D
			t. <u>58.2</u>			3							
	SAMPLE	+TARE, i.	226.7	SIS	11/	<u>′2</u>	<u> </u>				ş		
	SAMPLE	+TARE,f_	20 1.4	>-		<u> </u>	<u> </u>				-	100	iss
	SAMPLE	, f	144.2	AAL		/4	<u> </u>			190	<u> :2.i -</u>	:= :=	
İ	MOISTU	RE	19.3	AN		<u>′2</u>	<u> </u>			19.61	13.1	3:,5	: 5-
i	% Wc		:2.5	SE		/ <sub>8</sub>	<u>!</u>	<del></del>		<u>30.3</u>	<u> </u>		
				AR		<u>4                                    </u>	-	<del></del>		40.1		73.	<u> </u>
		OF FINE		Ò		<u>†</u>	-	·		<u> 13.0  </u>	70.3 20.3	-:-	·
	TARE Nº	106 W	1. <u>58.2</u>		P /	711/	<u> </u>			<u></u>	<del></del>	!	:
	3		207.4		Wt.	i				Wt. f		_ % Los	\$
			165.2		4	1					<b>-</b> :		
-	Wt. SOIL	LOST	42.2			0				58.5	39.2	60.8	61
	Wt. SOIL	, i	149.2	118		0	<u> </u>			72.9	48.9	51.1	1 51
-	% of FII	NES	28.Z3/	ΥS		0	<u> </u>		_	81.2	54.4	<del>,</del>	1 46
•		YDROME		Ā	6		<u> </u>			89.7	60.1	39.9	40
- !		ANALYS		A		00				99.3	66.6	<del></del>	33/
	4	SIZE i _		빌		00.	<u> </u>			106.5	71.4	28.6	
	1	JS CORR (N		몯	P/	AN:	<u> </u>			106.6			
	{	ENT r core			Wt. i			Wt.f_		%L	_oss	C.F.	:
	ANIOUN		1 1										
					UAL			L		R-Cd+ M	d=K√누		•
	TIME	At MIN	TEMP/K	HY	ORO	COF	RR'D	Eff.Dp	th.	CALC	SIZE	% Finer	CORRECTED
-		0	1			· ·							
		1/2	I I			3							
		1									-	į	:
-		2										!	
		4									-i		
		8											
-		15									1		
•		30									-	<u> </u>	
		60											
	<u> </u>	120											
	-	240				· ·	-				,		
	<u> </u>	480	<del>                                     </del>			<u> </u>				<u> </u>	!		

% FINER =  $\left[\left(\frac{G_s}{G_s-I}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$ 

1440

Gs \_\_\_\_\_ REAL /ASSUMED

EDICEDALGO

PROJECT	<u></u>	=	V. MAR	 ANG

CHK. BY CLR

DATE 8.5:87

#### GRAIN SIZE ANALYSIS

			_				LYSIS			
SAMPLE I.D: BORING	MN	1100		NUN	1BER		<u>5-3</u>	_DEPTH		
MOISTURE CONTENT		SIE		W	t. RET	AIN	1ED	% RET	% PASS	CORRECT'D
				WITH	TARE	WITH	OUT TARE		<u> </u>	
TARE Nº WI	1,0	3		ļ		<u> </u>				<del> </del>
SAMPLE+TARE, i 247.5	SIS	11/				_				
SAMPLE+TARE, 1 224.5	۲	1		<u> </u>		<u> </u>		···	<u> </u>	
SAMPLE, f	Ϋ́	3/		<u> </u>					100	20
MOISTURE 18 C	<	1/	2	<u> </u>		<u> </u>	3.6	2.2/	97.8	<u> </u>
% Wc	SE	3/		<u> </u>			13.5 21.3	15.01	87.0	1 6
	AR	4	4	<del>                                     </del>		÷		2.5	70.5	
% OF FINES	Ö	PA		<del>                                     </del>		-	33.5		1	<u> </u>
TARE Nº 75 W. 61.1				!					<u>!</u>	
SAMPLE+TARE, 1 224.5		Wt.	i	· · - · -			_ Wt.1		_ % Los	s
SAMPLE+TARE, 1 181.5		4	į							
W1. SOIL LOST 43.0		10	0				59.1	36.21	63.5	
wt. SOIL, i 163.4	15	2	0				18.4	48.0	52.0	1 52
% of FINES 26.3/	ΥS	4	0			0	20.3	55.3		1 45
78 01 111100	4	6	Ō			10	20.6	. 61.6	38.4	<u> 38</u>
HYDROMETER ANALYSIS	NA NA	10	00			1	10.1	157.4	32'	
SAMPLE SIZE i	lш	20	0				Z0 0	73.4	200	
MENISCUS CORR (M)	∥ <u>z</u>		N.			11	20.2	73.6	<u> </u>	1
DISP. AGENT		Wt. i		Wt f			%	Loss	C.F.	
AMOUNT CORR (Cd)										
	٧.	TUAL	. ,	₹	[		R-Cd+ M	d=K√\=		
TIME AT MIN TEMP/K	HY	DRO			_	oth.	CALC	SIZE	% Finer	CORRECTED
					<u>!</u>		·			
0			<u> </u>		1			<del>                                     </del>	1	<u> </u>
1/2			<u>!</u>  -				<u> </u>			
2			1		<u> </u>		1		i	
4	<u> </u>		<u>:</u> 1.		<u>.                                      </u>					
8	! !		-				İ	<del>                                     </del>		
1 15	<u> </u>		ľ				<del> </del>	i	i i	<u> </u>
30			<del>                                     </del>		1		i			
60	i		İ		i		<u> </u>	1	1	
120	<del>                                     </del>		Ť							
240		•								
480			1							
1440										

% FINER=  $\left[\left(\frac{G_s}{G_s-I}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$ 

Gs REAL / ASSUMED

PROJECT STEWART ANG

CHK.BY

JOB Nº 5:29.04
DATE 8.5:87

#### GRAIN SIZE ANALYSIS

SAMPLE I.D:	BORING_	3	100		NUN	<b>MBER</b>	=	>-3	_DEPTH		
MOISTURE CO	NTENT		SIE	VE		TARE		ED OUT TARE	% RET	% PASS	CORRECT'D
TARENS 38 W	, 58.8		- 3		W11. A	1246		I I I I I I I I I I I I I I I I I I I		<u>.                                    </u>	
SAMPLE + TARE. I	251.6	SIS	11/								
SAMPLE+TARE,f.	237.3	>-	• •	۷						100	100
SAMPLE, f	178.5	ANAL	3,	<u>'4</u>			7	-c.:	اجرا	<b>~3</b> .	
3A341 CC, 1	14.3	AN		2				/			! —
MOISTURE	<u>a 07/</u>	اسا[	3,	<b>'</b> 8				24.9	10.6	2	127
% Wc		RS		4				38.5	21.6	156	
% OF FINE	ES	OA		ļ				<u> </u>	25.7	763	. 74/
TARE Nº 88 W		Ö	P/	IN		<u></u>	<u> </u>			<u> </u>	<u> </u>
SAMPLE+TARE,			Wt.	i			<del></del>	_ Wt.f		_ % Los	s
SAMPLE+TARE,f	160.6			}				- 1		<del> </del>	
Wt. SOIL LOST	76.7		1	0.			5	6.8	31.8.	68.2	- 3
Wr. SOIL, i	178.5	18	2	0				7.3	37.7	62.3	_
%_of FINES	12 ~ / 1	ΥS		0				14.8	4:1.9.	1 58.1	1 58
		AL	6	0			8	32.8	46.4	1 53.6	,   5-
HYDROME ANALYSI	IER IS	AN	10	00			9	3.0	52.1	47.9	
SAMPLE SIZE i		Ш	20	00			10	2.0	57.1	429	1 3
MĒNISCUS CORR (N	۸)	Z	P/	N	1			-			
DISP AGENT		"	Wt. i			Wt f		%1	_oss	C.F.	
AMOUNT CORF	₹(Cq)		11 1. 1		111.1						
		۸۲٦	UAL	R	,	L		R-Cd+M	d=K√\=	ŀ	
TIME AT MIN						_	th.	CALC	SIZE	% Finer	CORRECTED
						<u> </u>				i	. ;
0 1/2							-				•
/2							-				
2										<del></del>	
1 4	<u> </u>		-			! 			İ	:	· · · · · · · · · · · · · · · · · · ·
8		<del></del>	***************************************			ļ					:
15						<u> </u>	i			ŀ	i
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- 60	i									ı	
120											
- 240	İ										
480									<u> </u>		
1440						<u> </u>					

% FINER=  $\left[\left(\frac{G_s}{G_{s-1}}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$ 

Gs \_\_\_\_\_ REAL /ASSUMED

PROJECT	2-	WART	λ
	تنا ، س	WART	ANG

COMP. BY
CHK. BY
RER

JOB Nº 512-.01

#### GRAIN SIZE ANALYSIS

SAMPLE I.D: BORING	B	101	NU	MBER		4	_DEPTH		
MOISTURE CONTENT		SIEVI	=   '	Wt. RET	AIN	ED	% RET	% PASS	CORRECT'D
TARE Nº 50 WI 53.0			WIT	H TARE	WITH	OUT TARE			:
TARE N= WI	18	3			ļ				•
SAMPLE+TARE, i 229.6	ll W	11/2						<u> </u>	
SAMPLE+TARE, 1 215.3	NALY	7.	-					<u> </u>	:
SAMPLE, f	Y	3/4			<u> </u>	<u> </u>		1 .00	100
MOISTURE 14.3	.   <	1/2			<u> </u>	3.2	2.0 /	1 :00 1 === :	
% Wc	SE				!	5.9	==		
	김	1/4			<del>                                     </del>	4.8	9.1	30.5	
% OF FINES	COA				<del>  '</del>	1		<del>                                     </del>	
TARE Nº 50 Wt. 53.0	-				<u> </u>				
SAMPLE+TARE, 1 215.3	-	Wt. i				_ Wt.t		_ % LOS	S
SAMPLE+TARE, 1 124.5	<u> </u>	4					-		<u> </u>
Wt. SOIL LOST 88.8	_	10			<u> </u>	8.1	17.3	82.7	53
wt. soil, i 162.3	_  S	20				9.5	24.3	<u> 1 75.7</u>	75/
% of FINES 54.7/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	40			1	17.2	29.1	70.9	1 71
	님님	60			1	55.1	<u>33.9</u>	106.1	inb/
HYDROMETER Analysis	NA N	100	5		1	03.9	-39.4	10.10	10:
SAMPLE SIZE L	—   H	1 200	5		-	13.3	45.2	54.8	1 55/
MENISCUS CORR (M)			N		-	13.ラ	45.3	1 -	1 —
DISP. AGENT	_   "	<del> </del>		\A/+ F		% 1	_oss	CF	
AMOUNT CORR(Cd)	_][_	Wt. i _		441.1 _					
	T					R-Cd+ M	d=K√\—		
TIME AT MIN TEMP/	AC	TUAL	R CORR				SIZE	% Finer	CORRECTED
TIME-IAT MINITENEY		DIO I	COM	<u> </u>	71114		+		
0								-	· · · · · · · · · · · · · · · · · · ·
1/2									
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2	<u> </u>	<u> </u>			!		1		
i 4 i	<u> </u>	!				<u>.</u>		<u> </u>	
8		<u> </u>							
15	-								
30	1						-	<u> </u>	
60							-		
120								<del> </del>	
	<del></del>								
240	1							-	
<del></del>									

% FINER =  $\left[\left(\frac{G_s}{G_{s-1}}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$ 

Ss \_\_\_\_\_ REAL /ASSUMED

PROJECT CHENART ANG

CHK. BY

DATE 8.31.67

#### GRAIN SIZE ANALYSIS

SAMPLE	ID: F	RORING	B	102	N	IUMI	BER:		5-6	DEPTH		
						Wt	, REI	AIN	EU	% RET	% PASS	CORRECT'D
MOISTUF				SIEV	-	WITH T			OUT TARE			<del>!</del>
TARE Nº	<u>り</u> wt.	52.3		3								<u>!</u>
SAMPLE+T	TARE, i _	259.7	SIS	11/2								
SAMPLE+1	TARE.f _	249.0	%	.					·		100	
SAMPLE,	f	176.2	AL	3/4						A &	100	
MOISTURE			AN	1/2					<u>5.7 i</u>	<u>44</u> 57	95.6	
•		10.61	SE	3/ <sub>E</sub>					13.2			=
% Wc			2	1/4					16.4	14.6		1 85 .
% 0	F FINE	<u>:S</u>	OA	4					28.7	19.0		1
TARE Nº -			၂ပ	PA	N			<u> </u>			1	<del></del>
SAMPLE+	TARE i	247.0		Wt.	i				_ Wt.1		_ % Los	S
SAIVII LE	TADE &	146.2	$\Vdash$	4	<del></del>							
				10				Ι.	44.7	22.8	1 77.2	1 77 /
Wt. SOIL L	.051		S					<del></del>	57.2	29.2	1 70.8	
Wt. SOIL,		52.4/	SIS	40					64.4	32.8	1 67.2	157/
% of FINI	ES	/2.47	ٍِدالِ	60		1			73.3	37.4	1.62.6	1/3
HY	DROME	TER		10	00			1 8	33.3	425	57.5	1 58 /
	NALYS		E A	1 20				1	73:3	47.6	1 52.4	52 :
SAMPLE S			IZ			1			73.4	-	l <u> </u>	
DISP AGE			[	.		<u> </u>	18/4 E		%	Loss	C.F.	:
AMOUNT.		R(Cd)	.	Wt. i			YV 1. 1 .					
							,		D-C + M	d=K√+	<del>-</del>	
- 1		TEMP/K	AC	TUAL		3 n' n	Eff D	nth	CAI C	SIZE	% Finer	CORRECTED:
TIME !	AT MIN	TEMP/K	H	וטאט	COI	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	211.0		0,400			
	0				<u> </u>						-	·
	1/2								<u> </u>		<del> </del> -	
	1				<u> </u>		ļ		<u> </u>		1	
	2		!		<u> </u>		<u> </u>		!			• ,
1	4		1		<u> </u>		!		<u> </u>		<u> </u>	!
	8		İ		<u> </u>		<u> </u>		<u> </u>			1
	15				<u> </u>				<u> </u>	_		1
	30		1				<del> </del>		<del> </del>		*	
	60		1		<del> </del>		1		-	_		
	120		╀-		<del> </del>		<del> </del>			_	+	
	240	1	[				1		<b></b>		<del></del>	<del>-</del>

% FINER =  $\left[\left(\frac{G_s}{G_s-I}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$ 

480 1440

Gs \_\_\_\_\_ REAL /ASSUMED

PROJECT	<u>_</u>			<i>}</i>
		Ξ	WALT	4.1.

CHK. BY

DATE 8.31.87

#### GRAIN SIZE ANALYSIS

SAMPL	E I.D:	BORING	5	103		NUN	BER		5-2.	DEPTH		
	URE CO			SIE	VE	WITH	TARE		NED	% RET	%PASS	CORRECT'D
TARE Nº	<u>10</u> w	/t. ======		3	)							
SAMPLE	+TARE, i	<u> 279, E</u>	SIS	. 17	2							
SAMPLE	+TARE,f	259,1	ΥS								į	
SAMPLE	. f	106.6	F	3/	4							
	RE		AN	1/	2			1	l l		:00	1 100
			Ы	3,		<u> </u>		<u> </u>	4.0	1,9	78.1	93 /
% WC -			RS		4	<u> </u>			9.2	4.5	95.5	26
%	OF FIN	ES ·	OA	4					17.0	8.Ź	91.8	92 /
		11. 52.5	ျပ	PΑ	7N			<u> </u>				
SAMPLE	+TARE,i	<u> 259.1</u>		Wt.	i				_ Wt.f		_ % Los	s
SAMPLE	+TARE, f	164.0		4	}	T			-		i	<b>—</b>
Wt. SOIL	LOST	95.1		1	0			-	38.2	18.4	81.6	82
Wt SOIL	. i	206.6	18	2	0				54.3	Z6.3	73.7	74 /
97 of E11	NES	46.0/	YSI	4	0	$\Box$	•		67.1	.32.5	67.5	1,8
			AL.	6	0				80.2	38.8	61.2	61-
	YDROME ANALYS		AN/	10	00			(	76.2	46.6	- 53.4	
,	SIZE i _		E /	20	00	-			11.4	53.9	46.1	40-
	US CORR (		Z	P	N	¥.	•	1	11.6		<del>-</del>	-
DISP. AG	ENT		"	Wt. i		<del></del>	W+ f	<del></del>	% 1		CF	
AMOUN	r cor	R(C <sub>d</sub> )		44 1. 1			*****		/6 0			
TIME	_ 	TEMP/K		TUAL DRO		₹ RR'D	L Eff.Dp	th.	R-Cd+M CALC	d=K√\ SIZE	% Finer	CORRECTED
	! 0						l					
	1/2	İ		· · ·								
	1 1										-	
	2	1										
	4	1					1					
	8											
	15											
	30										-	
	60								****		-	
	120											
	240,										ļ	
	480				<u> </u>	<u>:-</u>						
<u></u>	1440				1	<u>:</u>	}				<u> </u>	

% FINER =  $\left[\frac{G_s}{G_{s-1}}\right] \times \frac{100}{Wi} \left((R-C_d+M)-I\right) \times 1000$ 

G<sub>s</sub> \_\_\_\_\_\_ REAL/ASSUMED

= > .~ = - . . . . . .

PROJECT SIEWART ANG

CHK. BY

JOB Nº 5130 3

### GRAIN SIZE ANALYSIS

SAMPLE I.D:	BORING	5					- <del></del>	' DEPTH		
MOISTURE CO		T	1	EVE	1	Vt. RET	AINED	% RET	% PASS	CORRECT'D
TARE Nº 8					WITI	TARE	WITHOUT TARE	76 NE 1	70 PASS	CORRECT DI
SAMPLE+TARE, i	234.8	S		3	ļ					1
SAMPLE+TARE, f	221.1	SIS		/2	-				<u> </u>	
SAMPLETIARE, I	140	ALY	3	<u> </u>  4	<del> </del>	71.74	12.1	7.2	<u> </u>	cc   =1/
MOISTURE	127	NA AN		12	-		17.7	10.5		
		ш	3,	<u>/</u> 8	-		51,2		<u>. 5.5</u> : 57.5	85
% Wc	<u> </u>	RS	1,	/4			24.6	14.6	55.	
% OF FIN	ES	OA		4			31.5	18.6	5.4	
TARE Nº 5 V		Ü	P/	NA	<u>.</u>					i
SAMPLE+TARE,			Wt.	i	-	······································	Wt. f		_ % Loss	i
SAMPLE+TARE,	143.3		4	1	<u>.</u>				i	
Wt. SOIL LOST	77.8			0			43.6	25.3	74.2	74
Wt. SOIL, i		S		0			53.5	31.7	68.3	<del></del>
% of FINES	46.01	ΥS	4	0			60.9	36.0	GA.C	
HYDROME		AL.	6	0			68.9	40.3	.59.2	59 /
ANALYS	IS	A		00_			79.0	46.7	53.3	55
SAMPLE SIZE [ _		쁘		00			91.2	54.0	450	461
MENISCUS CORR ( DISP. AGENT		F N	P/	7N			91.4			!
AMOUNT COR			Wt. i			Wt.f_	%L	.oss	C.F	
TIME AT MIN	TEMP/K	ACT HYI	UAL DRO			L Eff.Dp	R-Cd+ M		% Finer   C	ORRECTED
. 0					<del>,          </del> .			İ	-	
1/2				······		İ			<u>:</u>	
! 1				*** • • • •						
2										
4										i
. 8										!
15					-					
1 30										
120					-					
240										
480	<del>                                     </del>				•					
: 1440					•					
[ر د	100				<u> </u>					

% FINER=  $\left[\left(\frac{G_s}{G_s-I}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$ 

Gs \_\_\_\_\_ REAL /ASSUME

= 0.10=0.110

PROJECT			1
	JTE	WART	ANG

COMP. BY
CHK, BY

JOB Nº 5139.01

# GRAIN SIZE ANALYSIS

SAMPL	<u>E I.D:</u>	BORING		3104	4	NU	MBER		<u>5-4</u>	_DEPTH		
MOIST	URE CO	NTENT		CII	EVE		Vt. RET			% RET	1	COPPER
	•			5	YE	WITH	TARE	WIT	HOUT TARE	70 REI	% PASS	CORRECT'
		1. 53.4			3							
	+TARE, i		15	1	/2						100	100
SAMPLE	E+TARE,f.	245.4	LYS		1				25.7	13.4	36.0	
SAMPLE	E, f	192.0	¥	3	/4				/			1
MOISTI	JRE	16.4	ANA		/2			1	/		i –	
W 14/ "	/···C	3.51	$\ \mathbf{u}\ $	3	/e			i	27.9	.4.5	==.=	8.
% WC .			RS		/4	j			31.21	10.5	55	84
%	OF FINE	ES	OA		4				37.01	19.3	05-	181/
TARE N	• 4 w	53.4	ĮΟ	P	ΔN							i
SAMPLE	+TARE,	245.4		Wt.	i				Wt.f		_ % Los	s
SAMPLE	+TARE,f	160.3		4	4				I		I	
Wt. SOIL	LOST	85.1		I	0			-	50.6	26.4	73.6	1 74 /
Wt. SOIL	., i <u> </u>	192.0	2	2	0			1	12.8	32.7	67.3	67
	NES	33-7	ΥS	4	Ō			1	11.8	37.4	69.6	
	YDROME		심심	6	0				BZ.1	42.3	57.2	
	ANALYS	IS	AN	10	00				93.9	439	51.1	57
	SIZE i _		اساا	20	00			1	06.8	55.6	44.4	
MENIŠC	US CORR (I	M)(N		P	AN				07.0			i i
DISP. AG			"	VA/4 :		1	14/4 £				^ -	
AMOUN.	T CORE	۲(C <sup>q</sup> )		YY 1. [		<u> </u>	YV 1. 1		70 L	_oss	C.F.	
											]	
TIME	A+ MIN	TEMP/K	ACI	UAL	I COB	ם, ט	Est Do		R-Cd+M		0/ =:	CORRECT
	,	I CIVIE / K			COR	ט א.	יבוו.טף	1111	CALC	SIZE	% Finer (	- CORRECT
	0				<u> </u>							•
	1/2				<u> </u>							
	1											
-	2			· · · · · · · · · · · · · · · · · · ·							<u> </u>	
<u> </u>	4				<u> </u>				·		<u>    i                                </u>	
	8	1										
	15	1									İ	
	30	i			,			<u> </u>				
-	60	<u> </u>						_				
<u> </u>	120					•				<u>                                     </u>		
	240						<u> </u>					
	480		<del></del>							<u> </u>		<del></del>
	1440						<u> </u>			<u> </u>		
	5.0					7						<del></del>

% FINER=  $\left[\left(\frac{G_s}{G_s-I}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$  G<sub>s</sub> \_\_\_\_\_ REAL /A

000 150-	$\hat{}$	<b>λ</b>
PROJECT	2-11/15:20-	$\Lambda$ . :
i		

CHK. BY RLR

JOB Nº 5139.01 DATE 8.31.37

#### GRAIN SIZE ANALYSIS

(Ē,

	2	JOC-	, pri	II IMPI	FR	53	_DEPTH		
AMPLE I.D: BORING	$\vec{\mp}$	SIEVI	=	Wt.	RETA	INED	% RET	% PASS	CORRECT'D
MOISTURE CONTENT	L	SIEVI		WITH TAR	E W	THOUT TARE			
TARE Nº 70 WI 58:6	Γ	3							-
SAMPLE+TARE, 1 _289.1	SIS	11/2						100	1 100
SAMPLE+TARE, 1 264.1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1						96.5	97-
SAMPLE, f	<b>4</b> 1	3/4				7.1	3.5	95.3	
75.0 II	AN	1/2				9.7	4.7	04.4	1 04 /
MOISTURE 12.2	의 기	3/8				11.6	9.1	90.9	1 91
% Wc	2	1/4				18.7	13.7	56.3	1861
% OF FINES	OA	4				28.1			
TARE Nº 70 Wt. 566		PAN	<u> </u>				<u>.                                    </u>	9/ 1	
SAMPLE+TARE, i 264.1		Wt. i				Wt.	f	% Los	5
SAMPLE+TARE, f 195.0	H	4							
SAMPLETIARE, 1 49.1		10				46.8	22.3	77.2	
W1. SUIL LUST	တ	20				65.4	31.8	63.2	
Wr. 501L, 1	S	40				80.2	39.0	61.0	1/2/
% of FINES	ALY	60				97.3	47.4	52.6	
HYDROMETER	Z	100				116.3	1 56.6	44.4	
ANALYSIS	EA	20				135.8	66.1	33:9	34/
SAMPLE SIZE i MENISCUS CORR (M)	E	PA				136.5	<u>                                     </u>		
DISP. AGENT	🗓	<b></b>		<u>'</u>	J+ f	%	Loss	C.F.	
AMOUNT CORR (Cd)		Wt.i_		'`					i
		TUAL	COS	R IN F	L ff Dr	R-Cd+ Noth. CALC	A d=K 나 SIZE	% Finer	CORRECTE
TIME AT MIN TEMP/K	<u> </u>	ו טאט							
0								-	<u> </u>
1/2								-	
1									
2									
4									†
	l	1		1		1	<u> </u>		

% FINER=  $\left[\frac{G_s}{G_{s}-1}\right] \times \frac{100}{Wi} \left((R-C_d+M)-I\right) \times 1000$ 

Gs \_\_\_\_\_ REAL /ASSUMED

						13			
PROJECT OTEWAST		<u>ک</u> رہے					COMP. BY	JOB NS	0139.01
	7	-,,,;_	<b>-</b> .		,		CHK. BY R	ROATE	8.31.37
		GRA	VIN	SIZ	E AN	VALYSI	S		
SAMPLE I.D: BORING	<u>_</u>	100-		NUN	1BER	<u>55</u>	DEPTH		
MOISTURE CONTENT		SIE	VΕ	W		AINED	% RET	% PASS	CORRECT'
TARE Nº _ 3 Wt. 519		3							
SAMPLE+TARE, i 263.3	SIS	11/2	2						
SAMPLE+TARE, 1 235.	\text{\center}								
SAMPLE, f	NA NA	3/4							
MOISTURE	<del>\</del> \	1/2					, , ,	1 100	1 100
% Wc	SE	3/8				8.0	1 4.3	1 25.7	
	2 ال	4				16.8	1 9.0	91.0	
% OF FINES	SOA	PA				24.3	1 13.0	87.0	7   87/
TARE Nº 3 Wr. 51.9	$\ $					!	_!	1	<u>-</u>
SAMPLE+TARE, 1 238.6		Wt.	i			Wt.	. f	_ % Los	;s
SAMPLE+TARE, 1 164.5	$\  \ $	4				_			
Wr. SOIL LOST 74.1		10	) -			41.7	22.3	1 77.7	
Wt. SOIL, i186.7	15	20	<u> </u>			58.Z	31.2	189	
% of FINES 39.9/	ΥS	40				71.0	33.0	62.0	
HYDROMETER	티턴		) -			83.7	44.8	55.2	7
ANALYSIS	AN		0-	<u> </u>		97.0	57.0	48.0	
SAMPLE SIZE (	=	20				112.0	60.0	40.0	20 /
MENISCUS CORR (M)	E	PA	N	<u> </u>		112.8			
AMOUNT CORR (Cd)		Wt.i			Wt.f_	%	Loss	C.F.	·
	۸.	TIIAI		,	3.2 1	B-C-1-1	4 d=K [	-	
TIME AT MIN TEMP/K	HY	DRO	COF	R'D	Eff.Dp	th. CALC	M d=K√+ SIZE	% Finer	CORRECTE
0								•	
1/2								3	
2									,
4		İ							
8						- 1	1	1	1

% FINE	- [/ Gs	100	) (p-c	M1-1)]	X 1000	G-		PEAI	/ASSUMED
	1440		<u> </u>		<u> </u>				
	480						<u> </u>	,	
	240						<u> </u>		
	120							·	·
	60								
	30								
	15			-					
	8								
	4								
	2								
	•			L		L			

% FINER= 
$$\left[\left(\frac{G_S}{G_S-I}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$$

	$\sim$	
PROJECT	-	λ
	المسارين والمساسب	シェル
	المستعدم المراجعة	
	DIEWART	

CHK. BY PLE

JOB Nº 5130.0: DATE 8.31.37

GRAIN SIZE ANALYSIS

<u>(5)</u>

_									LYSIS			
SAMPL	E 1.D: 1	BORING	<i>1</i> 5	107	**					_DEPTH	-	
	JRE CON			SIE	VE	WITH	t. RET		OUT TARE	% RET	% PASS	CORRECT'D
TARE Nº	25 w	25.7		3		<u> </u>		<u> </u>				
SAMPI F	+TARE, i _	234.9	2	11/		<del> </del>			<del>i</del>			-ii
24401	+TARE,f_	210.5	ISI	• • •				<u> </u>				
SAMPLE	, f	141.8	ALY	3/	<u>'</u> A	i						i
		24.4	AN/		2		<del></del>		i		1 100	100
MOISTU	RE	7.2/	E/	3/				<u> </u>	5.0	5.5	76.5	
% Wc _		· · · · · _	RS		<u>'</u> 4				8.4 1	5.9	94.1	94
0/	OF FINE	۲	OAI		}				11.3	<b>\$.0</b>	92.0	1921
	01 11112	187	$\ddot{\circ}$	PA	IN		-				-	
TARE Nº	25 WI	210.5		Wt.					W+ f		_ % Los	s
SAMPLE	+TARE,i.	172,							¥¥ 1. 1		_ /003	<u> </u>
SAMPLE	÷TARE,f	167.6				<u> </u>						<del> </del>
Wt. SOIL	LOST	06.9			0	<u> </u>		<del></del>	3.6	9.6	90.4	90
Wt. SOIL	, i	141.8	SIS		<u> </u>	<u> </u>			5.5	11.6	83.4	
% of Fil	NES	U.3%/	>		<u>o</u>	<u> </u>		<del>                                     </del>	3.8	13.3	86.7	
	YDROME		AL	6		<u> </u>		_	26	15.9	34.1	84 /
	ANALYSI	S	AN		00_	<u> </u>			0.3	21.4	18.6	
, —	SIZE i		w		00		-	_	3.4	37.7	82.3	62/
1 .	JS CORR (N		몯	P	N		·	15	4.9		<u>                                      </u>	
	ENT		-	Wt. i			Wt.f_		%	Loss	C.F.	
AMOUNT	CORF	κ( <u>c</u> q) ——	<u> </u>	<u> </u>							1	
			ACT	TUAL	F	₹	L		R-Cd+ M	d=K√\=	-	
TIME	At MIN	TEMP/K	HY	DRO	COF	RR'D	Eff.Dp	th.	CALC	SIZE	% Finer.	CORRECTED
	0	i			<u> </u>			i				•
	1/2				<u> </u>							
	1 /2				<del> </del>					<del>                                     </del>		
	2						<u> </u>					***************************************
	4	<u> </u>			<del>                                     </del>					<del>                                     </del>		
	8						i -				-	
	15			<del></del>	<del>                                     </del>	<del></del>	<b></b>				_	
<u> </u>	30				<del>                                     </del>							
	60			<del></del>			<u> </u>					
	120										-	
	240											
	480	i										
	1440											
					-							

% FINER =  $\left[\left(\frac{G_s}{G_{s}-I}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$ 

Gs \_\_\_\_\_ REAL /ASSUME

PROJECT		λ
	DIEWART	- ANG

SAMPLE I.D: BORING

CHK. BY PLR

DEPTH

JOB Nº 5/39.01
DATE 2.3:.35

#### GRAIN SIZE ANALYSIS 8108 NUMBER 53

MOISTURE CONTENT		SIEVE	Wt. RE	TAINED	% RET	% PASS	CORRECT'D
TARE Nº 19 Wt. 55.7		3	- HIT HE TAKE	WITHOUT TARE			
SAMPLE+TARE, i 232.7	SIS	11/2					
SAMPLE+TARE, 1 2:3.8	LYS	1					
SAMPLE, f	NAL	3/4	<u> </u>			100	<u>  la:</u>
MOISTURE 18.9		1/2		11.5	7.3	02.7	53/
% Wc 12.07!	SE	3/8 1/4	-	26.3	12.7	87.5	
	OAR	4	<u> </u>	34.2	16.7	78.4	93 /
% OF FINES	ူပ	PAN	at.	1 01.2			
TARE Nº 19 Wr. 55.7		Wt. i	- -	\A/+ 1	<u> </u>	_ % Los:	e
SAMPLE+TARE, 1 213.5				YY 1. 1		_ /6 LUS	3
SAMPLE+TARE, 1 158.8		4					<u> </u>
Wr. SOIL LOST		10	÷	45.9	29.0	71.0	1 7)
wr. soil, i 158.1	SIS	20		57.6	36.4	1 63.6	I LA
% of FINES 34.8 35.Z	>	40	•	66.4	42.0	58.0	58
HYDROMETER	الإ	60	-	77.6	49.1	50.9	51 /
ANALYSIS	NA NA	100	-	95.1	60.2	398	1 40
SAMPLE SIZE i	INE	200		103.2	64.9	35.5	35
MENISCUS CORR (M)	E		<u> </u>	103.3			
AMOUNT CORR(Cd)		Wt. i	Wt. f	%	Loss	C.F.	
TIME AT MIN TEMP/K			R L		d=K√\= SIZE	% Finer	CORRECTED
31/2							
ı							
2							
4							

% FINER= 
$$\left[\left(\frac{G_s}{G_{s-1}}\right) \times \frac{100}{Wi} \left((R-C_d+M)-I\right)\right] \times 1000$$

Gs \_\_\_\_\_ REAL /ASSUMED

CHK. BY RLR

JOB Nº 5130.01
DATE 8.31.37

#### GRAIN SIZE ANALYSIS

SAMPLE I.D: BORING_	B	110	NUMBER	54	_DEPTH		
MOISTURE CONTENT		SIEVE	Wt. RET		% RET	% PASS	CORRECT'D
TARE Nº \$ 51 Wt. 52.8		3	WITH TARE	WITHOUT TAKE			
SAMPLE+TARE, i 237.2	SIS	11/2					
SAMPLE + TARE 1 215.3	ΓYS						
SAMPLE, f 16215	A	3/4				100	<u> </u>
21.9	AN	1/2	<u> </u>	0	. 1	) ) ) C (	100
% Wc	RSE	<sup>3</sup> /8	1	1.3	j.] 5.1	549	9.5
		1/4	<u> </u>	8.2	9.9	30.1	9.7
% OF FINES	ပ္ပ	PAN		10			
TARE Nº 51 Wt. 52.8  SAMPLE + TARE, 1 215.3		Wt.i_		Wt.	f	_ % Loss	
SAMPLE TARE, 1 150.4		4	1	1		<u> </u>	
Wt. SOIL LOST 64.9		10		29.7	18.3	81.7	52
W. SOIL i 162.5	18	20		40.3	24.8	75.2	75/!
% of FINES 40.0/	ΥS	40		48.5	30.0	70.0	70
HYDROMETER	AL.	. 60		60.2	31.7	58.3	1.8/
ANALYSIS	AN	100		82.3	50.7	49.3	29
SAMPLE SIZE i	w	200		- 98.1	60.4	39:0	40 /
						1	
MENISCUS CORR (M)	N I	PAN	·	98.3	6.5		<u> </u>
		PAN Wt. i	Wt. f _	<u>  98.3</u> %	·	C.F.	· :

TIME	_ 	TEMP/K	ACTUAL HYDRO	R CORR'D	L Eff.Dpth.	R-Cd+M CALC	d=K√+ SIZE	% Finer	CORRECTED
	O								
	1/2								
	2								
	4								
	8								<u> </u>
	15								
	_ 30								
	60								
	120								•
	240			·	<u> </u>			<u> </u>	
	480								
	1440								

% FINER =  $\left[ \left( \frac{G_s}{G_{s}-I} \right) \times \frac{100}{Wi} \left( (R-C_d+M)-I \right) \right] \times 1000$ 

Gs \_\_\_\_\_ REAL /ASSUMED

APPENDIX D
FIELD PERMEABILITY TEST DATA

· .

# TABLE D-1

# RISING HEAD PERMEABILITY TEST DATA

JHW108 PERMTEST		JMW109 PERMTEST		JMW107 PERHTEST		JMW101 PERMTEST	T
Diameter of riser Length of zone Diameter of zone Static water level Number of readings	= 0.166 = 7 = 0.66 1 = 8.38 s = 20	Diameter of riser = Length of zone = Diameter of zone = Static water level = Number of readings =	= 0.166 = 7 = 0.666 = 9.91	Diameter of riser Length of zone Diameter of zone Static water level Number of readings	= 0.166 = 7 = 0.66 = 10.13	Diameter of riser Length of zone Diameter of zone Static water level Number of readings	ser = 0.166 = 12 ne = 0.333 evel = 31.23 lings = 16
Time (min.)	Excess Head (ft.)	Time (min.)	Excess Head (ft.)	Time (min.) H	Excess Head (ft.)	Time (min.)	Excess Head (ft.)
		c	7.04	57	1.98	0	1.41
<b>.</b>	7.00	· ·	1.03	<u>.</u>	1.9	ę.	1.34
<b>⊸</b> ເ	4.00	? -	1.87	1,5	1.86	-	1.34
7 (		10	1.73	2	1.84	2	1.24
<b>n</b> ~	Tr: \	1 (1)	1.59	ı en	1.78	ന	1.20
<b>7</b> u	1 c v c	n 🛂	1.48	7	1.75	7	1.17
o v	3.66	רעיז	1.39	· w	1.69	2	1.13
o	3.42	. •	1.3	9	1.65	91	1.13
∞ ∞	3.2		1.22	_	1.01	~, ¢	100
60	2.97	∞	1.15	∞ .	1.5/	<b>×</b> 0 ¢	20.1
10	2.78	0	1.08	თ :	1.53	on •	1.08
	2.58	10	1.01	01	1.49	3 5	70:1
12	2.41	15	0.74	15	1.14	2 5	1.02
13	2.26	20	0.61	21	0.89	07	, c
14	2.11			29	0.4. V.	50	20.00
15	1.95	$K = 5.19 \times 10^{9} \text{ cm/sec}$	n/sec	30	, t, t	20	7
20	1.38			70	0.17	70 0 11 12	20 2/ 21 10 15 cm/200
25	0.88			20	0.13	X +7.7 = X	TO CIII) Sec
30	0.61			262/m2 3.01 × 00 / - V	Jes/ 85		
35	0.48			ı	מוול מנינ		
$K = 5.13 \times 10^{-5} \text{ cm/sec}$	-s cm/sec						

#### APPENDIX G

DAMES AND MOORE - BORING AND MONITORING WELL DATA

M	AJOR DIVISI	ONS	GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
	PRAVEL AND	ELEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL- SAND PIXTURES, LITTLE OR NO FINES
COARSE GRAINED -	GRAVELLY SOILS	(LITTLE OF NO FINES)	1 , 1	GP	POORLY-GRADED GRAVELS,GRAVEL- SAND MIXTURES, LITTLE OR NO FINES
SOILS	MORE THAN 50% OF COARSE FRAC-	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL-SAND- SILT MIXTURES
	TION RETAINED ON NO.4 SIEVE	APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS. GRAVEL-SAND- CLAY MIXTURES
	CIARZ CIAR	CLEAN SAID (LITTLE		sw	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR HO FINES
MORE THAN 50%	SAIDY SOILS	OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SANDS. LITTLE OR NO FINES
LANGER THAN NO.	MORE THAN 50% OF COARSE FRAC-	SANDS WITH FINES		<b>S</b> M	SILTY SANDS, SAND-SILT WIXTURES
	TION PASSING NO. 4 SIEVE	OF FINÇS)		sc	CLAYEY SANDS, SAND-CLAY MIXTURES
		. ?		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYCY FINE SANDS OR CLAYCY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED SOILS	SILTS AND CLAYS	EIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		Ē		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
				мн	INORGANIC SILIS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
MORE THAN 50% OF MATERIAL IS SHALLES THAN NO. OLD SIEVE SIZE	AL IS AND	CREATER THAN SO		сн	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				он	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
н	HIGHLY ORGANIC SOI	ى		РТ	PEAT, MUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDLALINE SOIL CLASSIFICATIONS.

SOIL CLASSIFICATION CHART

UNIFIED SOIL CLASSIFICATION SYSTEM

Page 1 of 3

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

DRILLING METHOD: Hollow stem auger

SAMPLING METHOD: Split spoon

BORING NO.: SW-1 SURFACE ELEV: 436.0

DATE STARTED: 9/12/85

DATE FINISHED: 9/16/85

SAMPLE NO.	BLOWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	
	40	SS	9 1 2 3	SM ML	Brown moist silt and fine to medium sand, little medium gravel grading to brownish-gray, silt, dry, some fine gravel and coarse sand, little coarse to medium gravel Hnu=0ppm
2	103	SS	4 5 6 7		Gray dry silt, litle fine to medium gravel, little sand Hnu=0ppm  boulder drilled at 8.0'
3	88	SS	9 10 11 12	ML	grades to some sand, little fine to coarse gravel Hnu=Oppm
4	128	SS	13 14 15 16	-	cobble at 15.0'
	77	SS	17 18 19 20	-	,

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

BORING NO.: SW-1

SAMPLE NO.	BLCWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
			22		boulder at 23.0'
6		SS	24 25 26		grades to little sand Hnu=Øppm
			27	ML	
	146	 	29 3Ø		Hnu= <lppm< td=""></lppm<>
			31 32 33		
8-	80/2"		34	-	
			36	-	Hnu=<1ppm
	-		38	-   -	Brown with iron staining, fissile, weathered shale, dry to moist, wet zone from 40 1" to 40 2", some silt
9	100/3"	SS	40	-	

Page 3 of 3

#### DAMES & MOORE BORING LOG

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

BORING NO.: SW-1

SAMPLE NO.	BLOWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
10	100/5"	ss	40 41 42 43 44 45 46 47 48	WEATHERED ROCK	grades to gray, dry with iron staining  Bedrock, spoon refusal, no sample Hnu=0ppm
	100/0"	-	50	<del> </del>	Boring terminated at a depth of 50.0 feet on 9/16/85

NOTE: Hnu readings are field detections of organic vapors given off by soil samples; measured with an Hnu photoionization meter set to a 9.8 span.

Page 1 of 3

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

DRILLING METHOD: Hollow stem auger

SAMPLING METHOD: Split spoon

BORING NO.: SW-2 SURFACE ELEV: 433.5

DATE STARTED: 9/18/85

DATE FINISHED: 9/19/85

SAMPLE NO.	BLCWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
1	32	SS	Ø		Brown, mottled, dry to moist, fine sand and silt, little fine gravel  Hnu=Øppm
			1 2	SP	INIC SEE
	-		3	-	- -
2	100	SS	5	SM	Brown, dry fine sand, little fine to medium gravel
			6		medium gravel  Hnu=0ppm  Brown, moist, fine sand, little medium to coarse sand and fine gravel, trace silt Hnu=0ppm
			8	SP	Miles of Francisco
3	92	SS	10	-	grades to dry, less gravel
			11	-	
		_	13	-	Gray, moist, silt, little fine to medium gravel, little fine sand Hnu=0ppm
4	75	SS	14	-	mid-bpp
		-	16	ML	-
		_	17	-	
	_	_	19	-	<u>:</u>
	-	-	20		

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

BORING NO.: SW-2

SAMPLE NO.	BLCWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
			20		no soil sample; cuttings are gray silt drilled boulder at 21 feet
			21		
<b> </b>			22		
			23		ė.
			24		
5	80	SS	25		grades to dry to slightly moist, little fine to medium sand, little fine to coarse gravel
			26		fine to coarse graver. Hnu=l0ppm
		<u> </u>	27	ML	-
		-	28		른
	·	-	29	1	
6		SS	30	•	no soil sample; cuttings are gray silt
<u>-</u>		-	31	1	
			32	-	
	-		33	-	: ÷
	-	-	34	-	
	100/1"	SS	35	-	Brown-gray with iron stains, weathered, slightly, metamorphosed shale Hnu=200ppm
	-	-	36	-	finu=200ppm
	-	-	37	- R	
	-	-	38	ROCK	-
		-	- 39		
8	100/1/2	SS	40	-	Hnu=8ppm

Page 3 of 3

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

BORING NO.: SW-2

SAMPLE NO.	BLOWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
	100/0"	\$S	40 41 42 43 44 45 46 47 48	- BEDROCK	Spoon bounces; bedrock
	50/0"		49 50		Boring terminated at a depth of 50.0 feet on 9/19/85

NOTE: Hnu readings are field detections of organic vapors given off by soil samples; measured with an Hnu photoionozation meter set to a 9.8 span.

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

DRILLING METHOD: Hollow stem auger

SAMPLING METHOD: Split sploon

BORING NO.: SW-3 SURFACE ELEV: 432.6'

DATE STARTED: 9/24/85

DATE FINISHED: 9/26/85

SAMPLE NO.	BLCWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
1		SS			Gray-brown, dry to slightly moist, mottled fine sand, some fine to medium gravel, little silt Hnu=0ppm
			<del>2</del> <del>3</del>		boulder at 3.0'
			4 5		grades to mottled, tan-light brown,
2	31	SS ———	6		moist Hnu=0ppm
			7.	SM	boulder at 8.0'
			9		·
3	74	SS	10		Hnu=0ppm
			11		boulder at 12.0'
			12		
			13		
<u> </u>	52	SS	14		
4			16		Tan to light brown, moist, fine sand, some fine to coarse gravel, trace silt
		-	17	-	Hnu=0ppm
		-	18	SP	
<b> </b>	-	-	19	-	
5	86	SS	20	SM	Yellow-tan, dry to slightly moist, fine

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

BORING NO.: SW-3

SAMPLE NO.	BLCWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
			20 21 22 23	SM	sand and silt, little fine to medium gravel grades to brown, dry, no gravel grades to gray slightly moist Gray, slightly moist silt, some fine to medium gravel, some fine sand Hnu=0ppm
6	50/6"		24 25 26 27		
	50/3"	ss	28 29 30 31	ML	cobble at 30.0' grades to dry, little fine to coarse gravel Hnu=0ppm
8	70/1/2"	ss	32 33 34 35 36 37		grades to no gravel Hnu=0ppm
	50/1/2"	·	38 39 40		grades to light gray silt and gravel

Page 3 of 3

#### DAMES & MOORE BORING LOG

CLIENT: STEWART AIR NATIONAL GUARD BASE LOCATION: NEWBURGH, NY

BORING NO.: SW-3

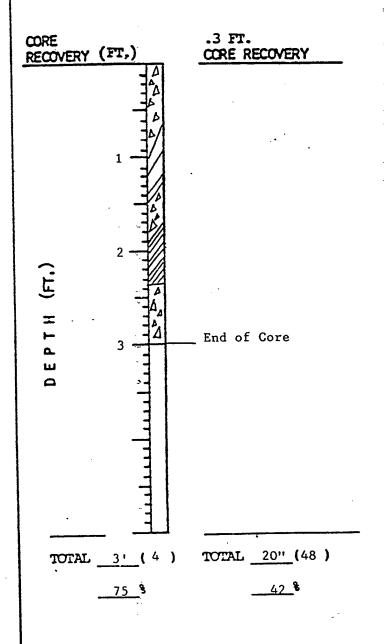
SAMPLE NO.	BLCWS/FT	SAMPLE TYPE	DEPTH IN FT.	SOIL GRAPH	MATERIAL DESCRIPTION
			40		Hnu=0ppm
	-		42		Weathered rock Hnu=0ppm
9	70/1"	SS	44 45 46		drilled easy from 44 1/2 to 45 feet Shale bedrock Hnu=0ppm
			47		·
			49 5Ø		Boring terminated at a depth of 49.5 feet on 9/26/85

NOTE: Hnu readings are field detections of organic vapors given off by soil samples; meadured with an Hnu photoionozation meter set to a 9.8 span.

APPENDIX B-2

ROCK CORE LOGS

Project No. 5139-01	Project Name Stewart ANGB	Boring No JTB-110
Logged By T. Longley	Date 8-19-87	Protection Level D
Core Diameter NX ≉2")	Core Run No. R-1 Depth 18.	.9 ft to 22.9 ft. (4')
Core Recovery 3 ft.	RQD 42 % Core Quality	Fair

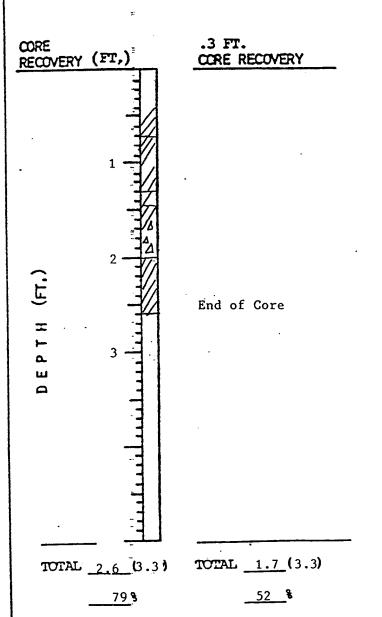


Shale - gray to blackish gray, thinly laminated, medium soft, moderately fractured and broken, 42% RQD, slight to moderate weathering with many fractures showing bright oxidation staining.

Cleavage is // to bedding and at  $20^{\circ}$  to core axis.

Few fractures up to  $60^{\circ}$  to axis Few open vugs Very crumbly at bottom of run

Project No. 5139-01	Project Name Stewa	rt ANGB Boring No JTB-110
Logged By T. Longley	Date 8-19-87	Protection Level D
Core Diameter NX ★2")	Core Run No. R-2	Depth 22.9 ft to 26.2 ft. (3.3')
Core Recovery 2.6 ft.	RQD 52 *	Core Quality Fair

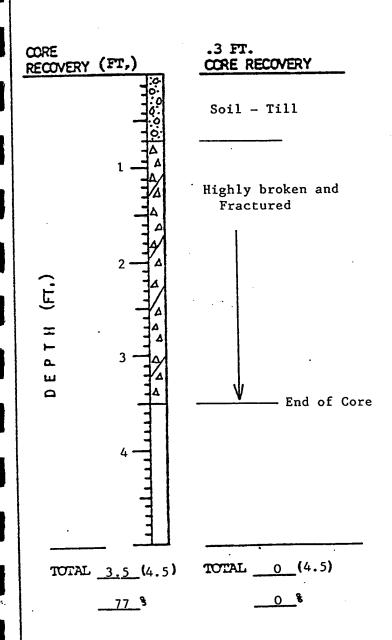


#### ROCK DESCRIPTION AND IDENTIFICATION

Shale - As above but less fractured

Last 9" of core is severely weathered along fracture faces

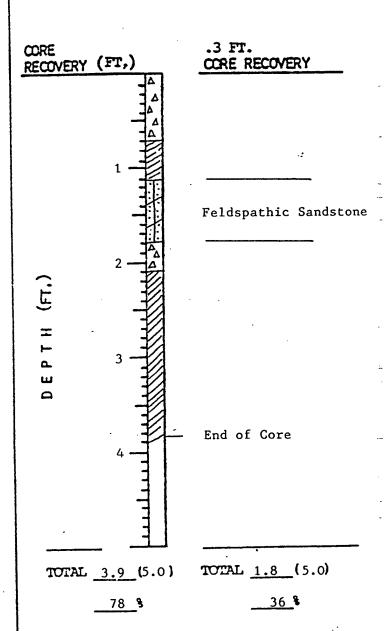
Project No. 5139-01	Project Name Stewart ANGB	Boring No. JTB-101
Logged By S. Pinette	Date 8-6-87	Protection Level D
Core Diameter NX (≈2")	Core Run No. R-1 Depth 37.0	ft to 41.5 ft. (4.5)
Core Recovery 3.5 ft.	RQD O % Core Quality	Very poor



Upper 0.7' (37.0'-37.7') is olive grey till mixed with medium grey shale fragments.

remainder of core is medium grey shale; well cleaved; cleavage planes stained rusty brown and medium greenish brown; cleavage oriented at 45° to core axis. Only 4 pieces of core are at least 1" in diameter.

Project No. 5139-01	Project Name Stewart ANGB	Boring No. JTB-101
Logged By S. Pinette	Date 8-7-87	Protection Level D
Core Diameter NX (≈2")	Core Run No. R-2 Depth 41.5	ft to 46.5 ft. (5)
Core Recovery 3.9 ft.	RQD 36 % Core Quality	Poor to fair



Shale - predominantly medium grey, closely cleaved; cleavage plane oriented at 45° to core axis; cleavage surface stained medium greenish brown and, in frequently, rusty brown (geothite); vertical joint (parallel to core axis) discontinous (0.1') in shale

Feldspathic Sandstone -0.7' bed interbedded with shale
(42.6' to 43.3') fine grain, light
grey/tan color; laminated parallel
to cleavage in shale; relatively
massive

Project No.	5139-01	Project Name Stewart	t ANGB	Boring No. JTB-102	-
Logged By <b>J.</b>	Urquhart	Date 8-12-87		Protection Level D	3
Core Diameter	Roller Bit 3.5"	Core Run No.	Depth 51.6	ft to 61.6 ft.	e e
Core Recovery	0* ft.	RQD O %	Core Quality		## *-

\*No rock core made - hole advanced into rock with tri-cone roller bit.

CORE RECOVERY (FT,)	.3 FT. CORE RECOVERY		ROCK DESCRIPTION AND	IDENTIFICATION
1		•		-
4				÷
	•			
- 1			•	
4				•
31		·=		2
(FT.)		·		
= -				-
E P		· <del>-</del> ·	• =	
0		3		
1				-
				**
4	,			-
		-		<del>-</del>
TOTAL ( )	TOTAL( )			•
	*	ĭ		
		: :		•

VISUAL IDENTIFICATION OF ROCK CORES

SHEET 1 OF 1

Project No. 5139-01	Project Name Stewart ANGB	Boring No. JTB-103
Logged By T. Longley	Date 8-14-87	Protection Level D
Roller Bit. Core Diameter 3.5"	Core Run No Depth	43 ft to 51.4 ft.
Core Recovery O* ft.	RQD 0 % Core Qualit	± <b>y</b>

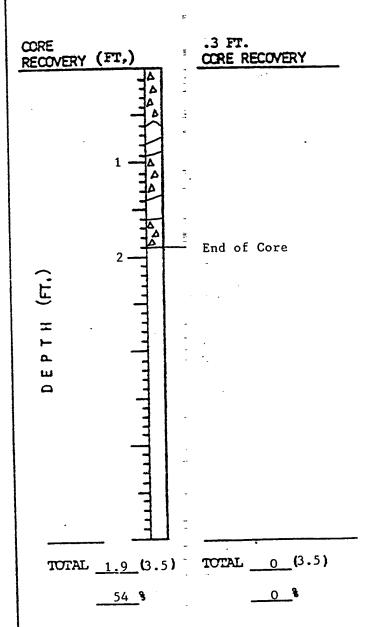
\*No rock core made - hole advanced into rock with tri-cone roller bit.

.3 FT. CORE RECOVERY (FT,) TOTAL \_\_\_\_( TOTAL

ROCK DESCRIPTION AND IDENTIFICATION

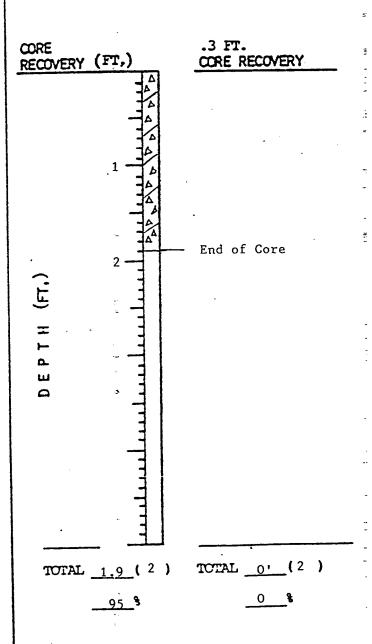
ECJORDANCO -

Project No. 5139-01	Project Name Stewart	ANGB	Boring No. JTB-134
Logged By T. Longley	Date 8-11-87		Protection Level D
Core Diameter NX (≈2")	Core Run No. R-1	Depth 27	ft to 30.5 ft. (3.5)
Core Recovery 1.9 ft.	RQD O %	Core Quality	Very poor



Black to grayish black shale, highly fractured and broken with numerous interconnecting, randomly oriented joints and open fractures. No one piece is as large as 4"; most are less than 2". Weathering of fracture is moderately fresh, especially near 30', which has moderate staining and distinct FeO and Mn O2 staining on fracture faces. No distinct layering or foliation

Project No. 5139-01	Project Name Stewart ANGB	Boring No JTB-104
Logged By T. Longley	Date 8-12-87 ≈	Protection Level D
Core Diameter NX (≈2")	Core Run No. R-2 Depth 30.5	ft to 32.5 ft. (21)
Core Recovery 1.9 ft.	RQD O % Core Quality	Very poor

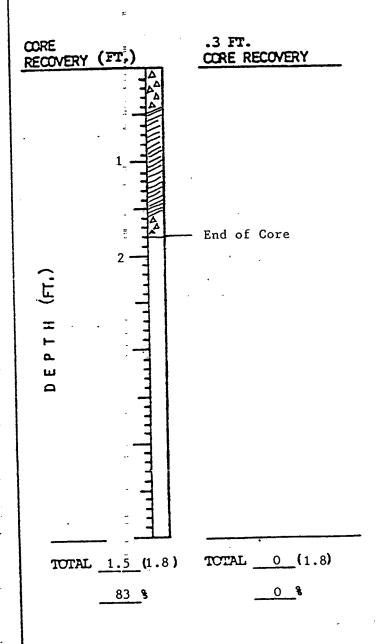


Same rock type as in R-1 - highly fractured and broken shale, common joints and fractures, few open ½" in size; top of run is extremely broken and pebbly, bottom ½" of recovered core is severely weathered rock (prevented penetration and caused core block), very (soil-like) weak and crumbly; one rock piece shows bedding at 55° to long core axis; FeO & MnO2 is faint to distinct throughout core

Some fragments exhibit highly sheared and rehealed rock.

Thin interbedded layers of feldspathic sandstone

Project No5139-01	Project Name Stewart ANGB	Boring No. JTB-104
Logged By T. Longley	Date 8-12-87	Protection Level D
Core Diameter NX (≈2")	Core Run No. R-3 Depth 32.	5 ft to 34.3 ft. (1.8')
Core Recovery 1.8 ft.	RQD O % Core Quality	Very poor



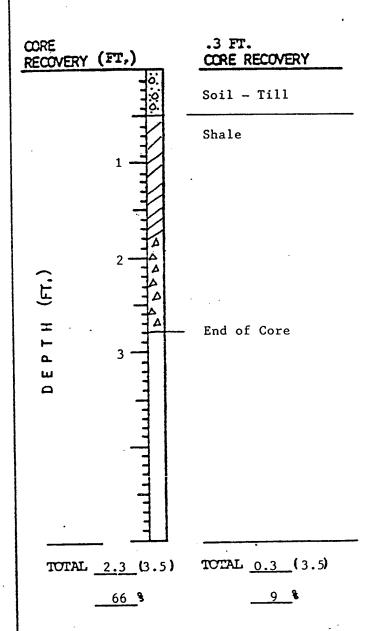
#### Shale

Same as above; extremely fractured and broken, crumbly, very weak, moderate to severe weathering; no piece of core longer than 1".

Top of recovery is slough from soil zone - pebbles and gravel

Core recovery is very subjective due to the poor rock quality

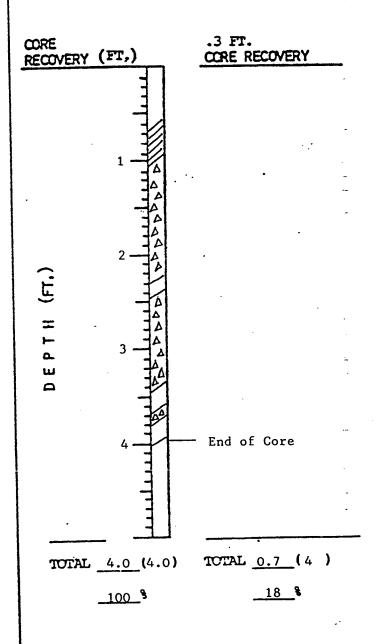
Project No. 5139-01	Project Name Stewart ANGB	Boring No. JTB-106
Logged By S. Pinette	Date 8-3-87	Protection Level D
Core Diameter NX (≈2")	Core Run No. R-1 Depth 19.5	ft to 23.0 ft. (3.5)
Core Recovery 2.3 ft.	RQD 9 % Core Quality	Poor



Shale - Medium grey colored; closely spaced cleaved planes are well developed and stained medium brown (FeO/MnO); cleavage and stratification are parallel and oriented at 40-500 with respect to core axtrace calcite peds and veinlets occur throughout, oriented both parallel and transverse to bedding/cleavage

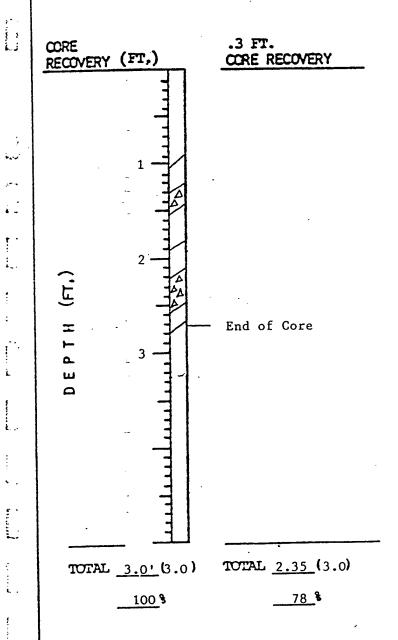
Note: Majority of core breaks occurations cleavage planes; no joints evident in this run

Project No. 5139-01	Project Name Stewart ANGB	Boring No. JTB-106
Logged By S. Pinette	Date 8-4-87	Protection Level D
Core Diameter NX (≈2")	Core Run No. R-2 Depth 23.0	ft to 27.0 ft. (4.0)
Core Recovery 4.0 ft.	RQD 18 % Core Quality	Fair to poor



Shale - essentially same as described for R-1; discontinuous, poorly developed joints present; oriented 90° to cleavage plane; joint surface stained iron-oxide (geothite) rusty yellowish brown color which is distinct from stain on cleavage surfaces; joints are relatively sparse

Project No. 5139-01	Project Name Stewart ANGB	Boring No. JTB-106
Logged By S. Pinette	Date 8-4-87	Protection Level $\hat{\mathbf{D}}_{-\mathbf{g}}$
Core Diameter NX (≈2")	Core Run No. R-3 Depth 27.0	ft to 30.0 ft. (3.0)
Core Recovery 2.8 ft.	RQD 78 % Core Quality	Good



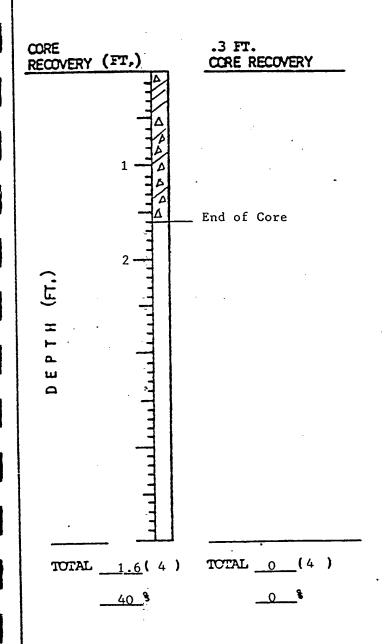
<u>:</u>\_.

#### ROCK DESCRIPTION AND IDENTIFICATION

Shale as described in R-2 above; joints are more abundant and slightly better developed then in R-2; joints spaces as closely as 1 inch in some core sections

SHEET \_1 OF \_3

Project No. 5139-01	Project Name Stewart ANGB	Boring No. JTB-107
Logged By T. Longley	Date 8-19-87	Protection Level D
Core Diameter NX (≈2")	Core Run NoR-1 Depth 10	ft to 14 ft. (4)
Core Recovery 1.6 ft.	RQD 0 % Core Quality	Very poor

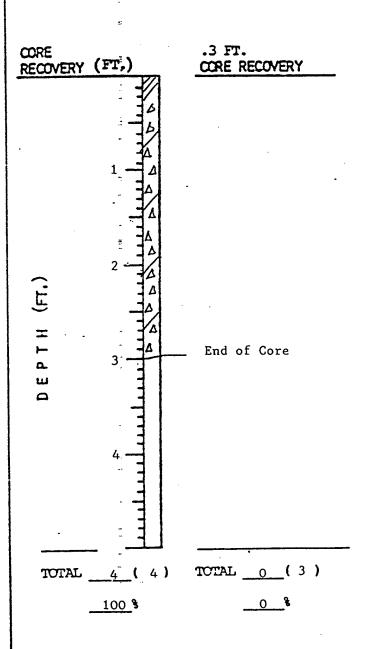


#### ROCK DESCRIPTION AND IDENTIFICATION

Shale gray shale

highly fractured and broken slicken sides throughout reddish brown to yellowish stain on most all surfaces

Project No. 5139-01	Project Name Stewart AN	GB .	Boring No. JTB-107
Logged By T. Longley	Date 8-19-87		Protection Level D
Core Diameter: NX (≈2")	Core Run No. R-2 De	pth 14	ft to 17 ft. (3')
Core Recovery 41 ft.	RQD O 5 Co	ore Quality	Very poor



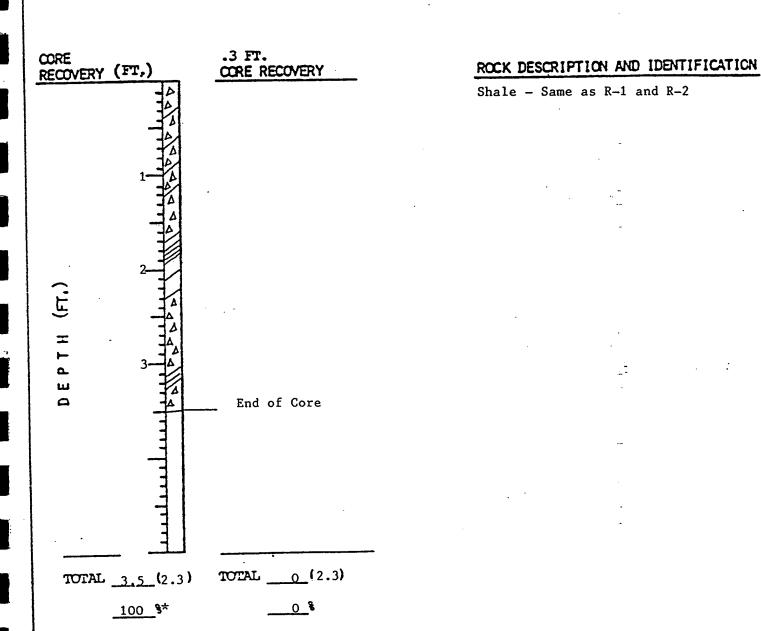
1:

#### ROCK DESCRIPTION AND IDENTIFICATION

Shale - Gray, thinly laminated medium-hard, highly fractured and broken, slight to moderate weathering staining on all fracture surfaces

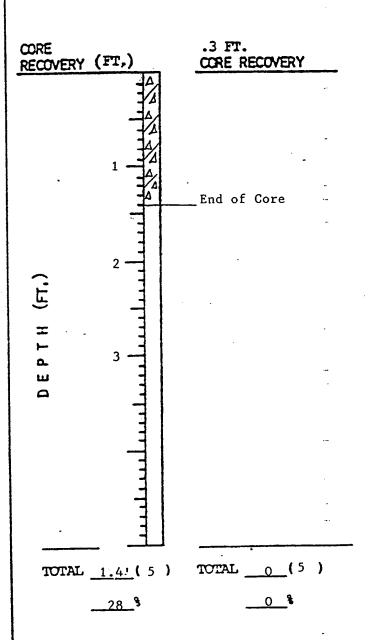
Cleavage is  $36^{\rm o}$  to core axis and is // to bedding lineation

Project No. 5139-01	Project Name Stewar	t ANGB	Boring No. JTB-107
Logged By T. Longley	Date 8-20-87		Protection Level D
Core Diameter NX (≈2")	Core Run No. R-3	Depth 17	ft to 19.3 ft. (2.3)
Core Recovery 3.5 ft.*	RQD O ≒	Core Quality	Very poor



 $\pm R-3$  recovered some of the broken fragments from R-2

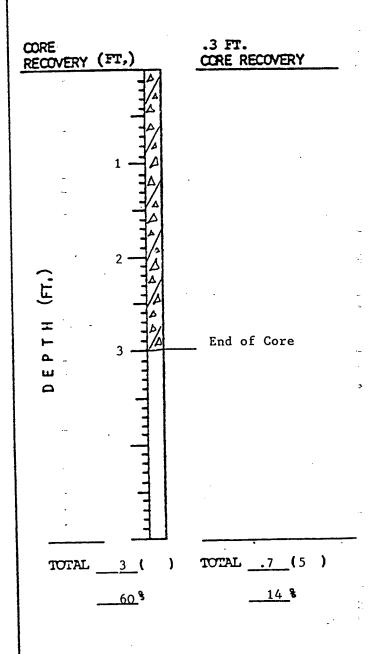
Project No. 5139-01	Project Name Stewart ANGB	Boring No JTB-108
Logged By T. Longley	Date 8-20-87	Protection Level D
Core Diameter NX (≈2")	Care Run No. R-1 Depth 1:	2.8 ft to 17.8 ft. (5)
Core Recovery 1.4 ft.	RQD 0 % Core Qualit	ty Very poor



Shale - gray to blackish gray thinly laminated medium soft to medium hard with depth, highly fractured and broken, medium weathering at top to slight with depth

Cleavage  $50^{\circ}$  to long axis

Project No. 5139-01	Project Name Stewart ANGB		Boring No. JTB-108
Logged By T. Longley	Date 8-20-87		Protection Level D
Core Diameter NX ≉2")	Core Run No. R—2	Depth 17.8	ft to 22.8 ft. (5)
Core Recovery 3.0 ft.	RQD 14 %	Core Quality	Very poor

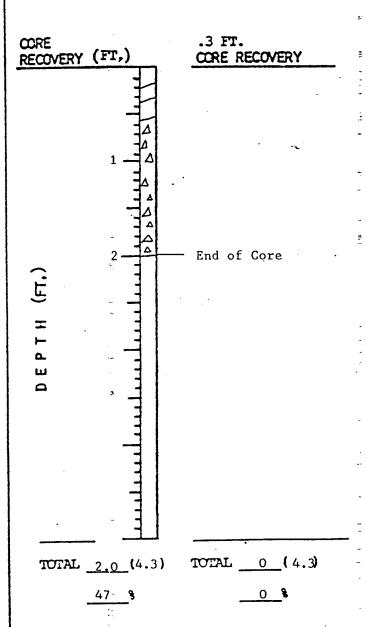


Shale - blackish gray to black thinly laminated, medium hard to hard, fresh to slight weathering highly fractured and broken

Cleavage is // to laminations and at  $45^{\circ}$  to long axis

Trace of disseminated pyrite

Project No. 5139-01	Project Name Stewart ANGB	Boring No JTB-109
Logged By T. Longley	Date 8-19-87	Protection Level D
Core Diameter NX (<2")	Core Run No. R-1 Depth 10	ft to 14.3 ft. (4.3')
Core Recovery 2.0 ft.	RQD 0 % Core Quality	Very poor



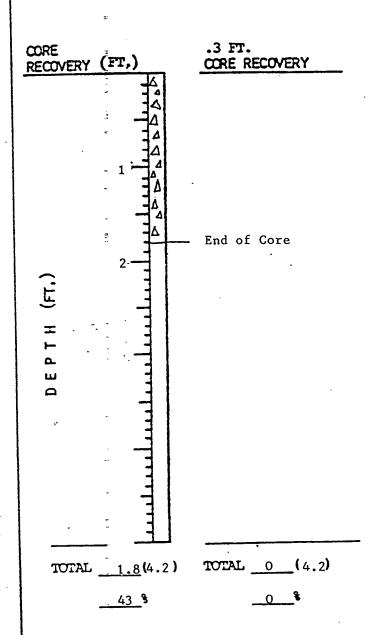
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## ROCK DESCRIPTION AND IDENTIFICATION

Shale - gray, thinly laminated, medium hard, highly fractured and broken, fresh to slight weathering

Can't measure 4's at all due to broken nature of rock

Project No. 5139-01	Project Name Stewart ANGB	Boring No. JTB-109
Logged By T. Longley	Date 8-19-87	Protection Level D
Core Diameter NX ≉2")	Core Run No. R-2 Depth 14.	3 ft to 18.5 ft. (4.2)
Core Recovery 1.8 ft.	RQD 0% Core Quality	Very poor



## ROCK DESCRIPTION AND IDENTIFICATION

Shale same as above — recovered very short pieces but these show more weathering on all fracture faces

APPENDIX B-3

MONITORING WELL INSTALLATION SHEETS

\_\_\_\_\_ јов но. <u>5139–01</u>

MONITORING WELL DESIGNATION \( \sum \text{MW-101} \) INSTALLATION DATE \( \frac{\beta/3/87}{\end{array}} \)

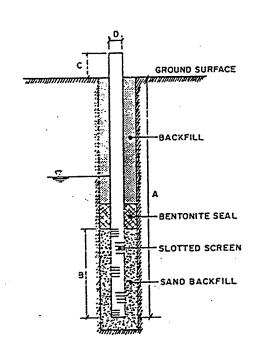
DIAMETER OF WELL 0.166

MATERIAL SCH 40 PVC

LOCKING PROTECTIVE COVER

YES \_\_\_ NO \_\_\_ FCJ DEVELOPED YES \_\_ NO \_\_

#### WELL CONSTRUCTION



10' ECREEN LENGTH

- ELEVATION OF WELL AT GRADE \_\_\_

### GROUNDWATER INFORMATION

APPROXIMATE RECHARGE / YIELD \_\_\_\_\_

WELL SCREEN POSITIONED IN TILL (i.e. till, clay, rock)

#### GROUNDWATER MONITORING/SAMPLING DATA

RECOMMENDED TYPE OF EQUIPMENT TO FLUSH WELL \_

RECOMMENDED AMOUNT OF FLUSHING .

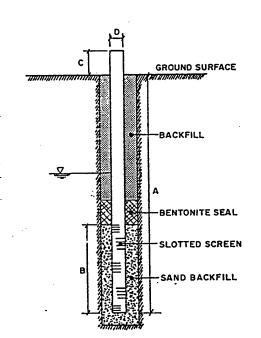
\_\_\_\_ јов no. <u>5139-01</u>

MONITORING WELL DESIGNATION JMW - 107 INSTALLATION DATE 8/3/87

DIAMETER OF WELL D.166 FT MATERIAL SCH. 40 PVC; 0.010" SLOTTED SCREEN

LOCKING PROTECTIVE COVER YES NO \_\_\_ DEILLER DEVELOPED YES NO \_\_\_

WELL CONSTRUCTION



5' SCREEN LENGTH

C = 3.25 CASING

WATER LEVEL RANGE 10.25 10.55

ELEVATION OF WELL AT GRADE \_\_

GROUNDWATER INFORMATION

APPROXIMATE RECHARGE/YIELD \_\_\_\_

WELL SCREEN POSITIONED IN TILL (i.e. till, clay, rock)

GROUNDWATER MONITORING/SAMPLING DATA

RECOMMENDED TYPE OF EQUIPMENT TO FLUSH WELL \_\_\_\_\_

RECOMMENDED AMOUNT OF FLUSHING \_

JOB NO. <u>5139-01</u>

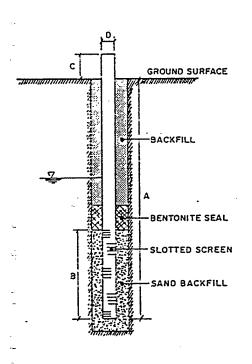
MONITORING WELL DESIGNATION IMW - 108 INSTALLATION DATE 8/4/87

DIAMETER OF WELL O. 166 FT MATERIAL SOH . 40 PVC; 0.010 SLOT S

LOCKING PROTECTIVE COVER

5' SCREEN LENGTH

#### WELL CONSTRUCTION



A = 10.97

2.59 CAGNIG

0.166

WATER LEVEL RANGE \_ 8.5 - 8.7

ELEVATION OF WELL AT GRADE \_\_\_

### GROUNDWATER INFORMATION

APPROXIMATE RECHARGE / YIELD \_\_\_

#### GROUNDWATER MONITORING/SAMPLING DATA

RECOMMENDED TYPE OF EQUIPMENT TO FLUSH WELL \_\_

RECOMMENDED AMOUNT OF FLUSHING .

\_\_\_\_\_ JOB NO. <u>5139-01</u>

MONITORING WELL DESIGNATION VAW -109 INSTALLATION DATE 8/6/87

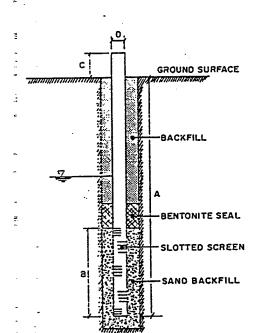
DIAMETER OF WELL O.166

MATERIAL SCH. 40 PVC; 0.010 STOT SIZE SCREEN

LOCKING PROTECTIVE COVER YES \_\_\_ NO \_\_\_

BRILLER DEVELOPED YES \_\_\_ NO \_\_\_

WELL CONSTRUCTION



A = 10.25

5' SCREEN LENGTH

0 = 0.166

WATER LEVEL RANGE 10.05 - 10.12

ELEVATION OF WELL AT GRADE \_\_

GROUNDWATER INFORMATION

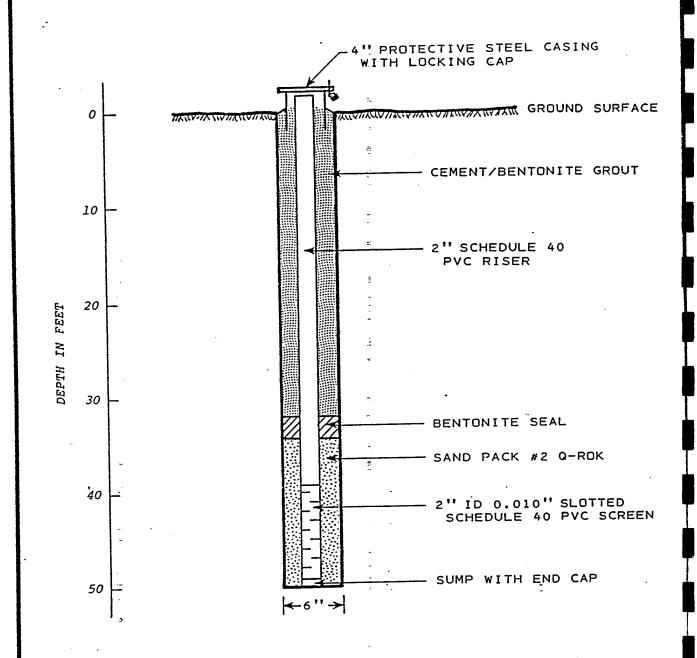
APPROXIMATE RECHARGE/YIELD \_\_\_\_\_

WELL SCREEN POSITIONED IN TILL (i.e. till, clay, rock)

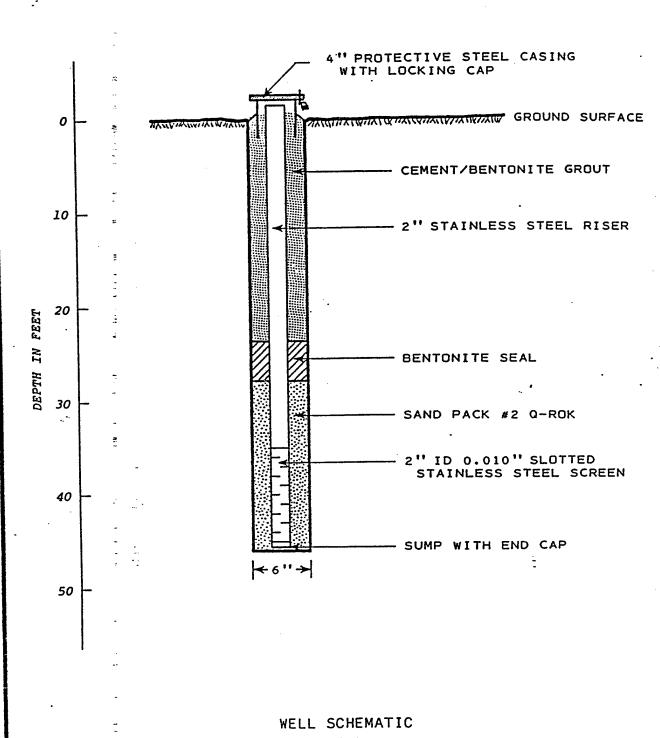
GROUNDWATER MONITORING/SAMPLING DATA

RECOMMENDED TYPE OF EQUIPMENT TO FLUSH WELL

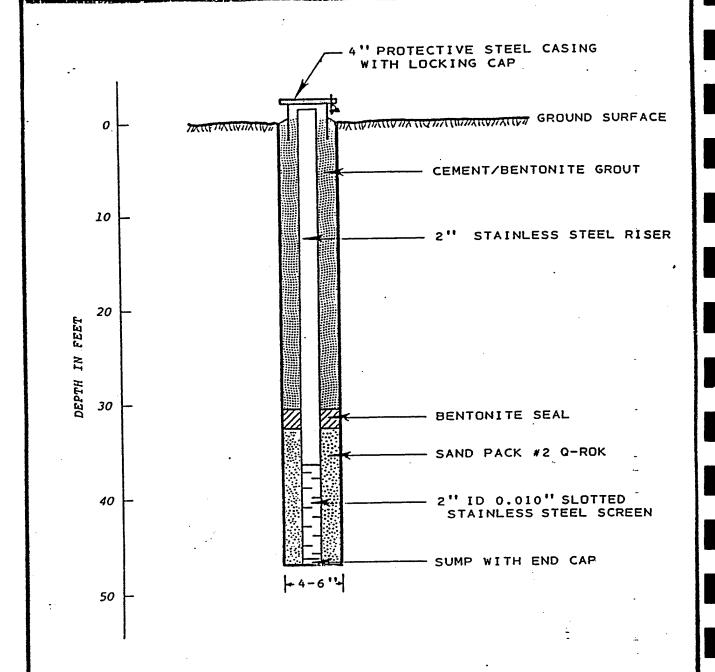
RECOMMENDED AMOUNT OF FLUSHING \_\_



WELL SCHEMATIC SW-1 -



SW-2



WELL SCHEMATIC SW-3

# APPENDIX B FIELD CHANGE REQUESTS

## FIELD CHANGE REQUEST FORM

1. Field Charles 2. Page	inge No of
3. PROJECT STEWART ANG BASE - SITE 1 4. PROJECT NUMBER 5. APPLICABLE DOCUMENT	
6. DESCRIPTION OF CHANGE:  GROUNDWATER MONITORING WELLS CONSTRUCT D' DIAMETER WELLS INSTEAD OF 4" WELLS	ED AS
7. REASON FOR CHANGE:  WELLS TO BE INSTALLED WILL BE CONSISTE  WITH PREVIOUSLY INSTALLED WELLS. ALSO, BO  WELL NOT PRACTICAL DUE TO TIGHTNESS OF SUBJURES	REHOLE FOR 4
8. RECOMMENDED DISPOSITION:	
9. PRESENT & COMPLETED WORK IMPACT:  ALL GROUND WATER MONITORING WELLS	
10. REQUESTED BY:  Michael Plud  Field/Project Manager	10/11/96 Date
11. FINAL DISPOSITION:	
12. APPROVAL:	
NGB Project Manager	Date

## FIELD CHANGE REQUEST FORM

	Page of
3. PROJECT STEWART ANG BASE - SITE 1 4. PROJECT NUMBER 5. APPLICABLE DOCUMENT	<u></u>
6. DESCRIPTION OF CHANGE:	
THE TWO PROPOSED GROUNDWATER MONITOR DE INSTALLED UPGRADIENT OF THE LANDEILL INSTALLED (IN THE OVERBURDEN)	WERE NOT
7. REASON FOR CHANGE:	
OVERBURDEN WAS DRY - NO GROUND WATER	PRESENT
8. RECOMMENDED DISPOSITION:	
NONE	
9. PRESENT & COMPLETED WORK IMPACT:	
TWO OF THE NINE PROPOSED WELLS	JERE NOT ENSTALLED.
10. REQUESTED BY:	, ,
Mishael Blowd Field/Project Manager	10/11/96 Date
11. FINAL DISPOSITION:	
12. APPROVAL:	
NGB Project Manager	Date

## FIELD CHANGE REQUEST FORM

AN ADDITIONAL WELL PAIR IS TO BE INSTALLED  THE SOUTH OF THE LANDEILL  7. REASON FOR CHANGE:  WPON REVIEWING GROUND WATER ELEVATION DATA GROUND WATER APPEARS TO FLOW RADIALLY DUDER CERTAIN PORTIONAL OF THE LANDEILL.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Michael Wanger  11. FINAL DISPOSITION:	1. Field Change No. 3  2. Page of
4. PROJECT NUMBER 5. APPLICABLE DOCUMENT 6. DESCRIPTION OF CHANGE:  AN ADDITIONAL WELL PAIR IS TO BE INSTALLED  TO THE SOUTH OF THE LANDFILL  7. REASON FOR CHANGE:  (PON REVIEWING GROUNDWATER ELEVATION DATA GROUND WATER APPEAR TO FLOW RADIALLY WATER CERTAIN PARTIENS OF THE LANDFILL  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MW-14 AND MW-15  MAKE BEEN TROTALLED  10. REQUESTED BY:  MILLS PAIR  FIELD/Project Manager  11. FINAL DISPOSITION:	2 PROJECT STOLLART ANG BASE - SITE 1
5. APPLICABLE DOCUMENT 6. DESCRIPTION OF CHANGE:  AN ADDITIONAL WELL PAIR IS TO BE INSTALLED  TO THE SOUTH OF THE LANDFILL  7. REASON FOR CHANGE:  UPON REVIEWING GROUND WATER FLEVATION DATA GROUND WATER APPEARS TO FLOW RADIALLY UNDER CERTAIN PORTIONS OF THE LANDFILL  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MW-14 AND MW-15  HAVE BEEN TWETTALED  10. REQUESTED BY:  MILLS WILLIAM  Field/Project Manager  11. FINAL DISPOSITION:	
6. DESCRIPTION OF CHANGE:  AN ADDITIONAL WELL PAIR IS TO BE INSTALLED  7. REASON FOR CHANGE:  UPON REVIEWING GROUNDWATER ELEVATION DATA GROUND WATER APPEARS TO THE RADIALY UNDER CERTAIN PATIENS OF THE LANDFILE.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MLI-17 AND MW-15  WAYE BEEN TRETALLED  10. REQUESTED BY:  Miled Project Manager  11. FINAL DISPOSITION:	
AN ADDITIONAL WELL PAIR IS TO BE INSTALLED  THE SOUTH OF THE LANDEILL  7. REASON FOR CHANGE:  WPON REVIEWING GROUND WATER ELEVATION DATA GROUND WATER APPEARS TO FLOW RADIALLY DUDER CERTAIN PORTIONAL OF THE LANDEILL.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Michael Recommender  11. FINAL DISPOSITION:	
7. REASON FOR CHANGE:  UPON REVIEWING GROUND WATER ELEVATION DATA GROUND WATER APPEARS TO FLOW RADIALLY UNDER CERTAIN PARTIONS OF THE LANDFILE.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MLI-14 AND MW-15 HAVE SEEN INSTALLED  10. REQUESTED BY:  Miland Dliml Field/Project Manager  11. FINAL DISPOSITION:	6. DESCRIPTION OF CHANGE:
7. REASON FOR CHANGE:  UPON REVIEWING GROUND WATER ELEVATION DATA GROUND WATER APPEARS TO FLOW RADIALLY UNDER CERTAIN PARTIONS OF THE LANDFILE.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MLI-14 AND MW-15 HAVE SEEN INSTALLED  10. REQUESTED BY:  Miland Dliml Field/Project Manager  11. FINAL DISPOSITION:	AN ADDITIONAL WELL PAID IS TO BE INSTALLED
7. REASON FOR CHANGE:  UPON REVIEWING GROUND WATER ELEVATION DATA GROUND WATER APPEARS TO FLOW RADIALLY UNDER CERTAIN PARTIONS OF THE LANDFILE.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MUI-14 AND MW-15 HAVE SEEN INSTALLED  10. REQUESTED BY:  Miland Dlimb Field/Project Manager  11. FINAL DISPOSITION:	THE COUTH OF THE LANDFILL
WPON REVIEWING GROUNDWATER ELEVATION DATA GROUND WATER APPEARS TO FLOW RADIALLY UNDER CERTAIN PORTIONS OF THE LANDFILE.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  MILL DISPOSITION:  12. APPROVAL:	
WPON REVIEWING GROUNDWATER ELEVATION DATA GROUND WATER APPEARS TO FLOW RADIALLY UNDER CERTAIN PORTIONS OF THE LANDFILE.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MW-17 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  MILL DISPOSITION:  12. APPROVAL:	
GROUND WATER APPEAR TO FLOW RASIALLY DUSTR CERTAIN PORTIONS OF THE LANDFILL.  8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MUI-14 AND MW-15  HAVE BEEN TRATALLED  10. REQUESTED BY:  Michael Rasial Plant Field/Project Manager  11. FINAL DISPOSITION:	
8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL WELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Minal Wind  Field/Project Manager  11. FINAL DISPOSITION:	UPON REVIEWING GROUNDWATER ELEVATION DATA.
8. RECOMMENDED DISPOSITION:  9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL MELL PAIR, MM-14 AND MW-15  HAVE SEEN INSTALLED  10. REQUESTED BY:  Michael Rund  Field/Project Manager  11. FINAL DISPOSITION:	GROUND WATER APPEARS TO FLOW RADIALLY DNDER
9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL MELL PAIR, MUI-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Mihad Xlund  Field/Project Manager  11. FINAL DISPOSITION:	CERTAIN PORTIONS OF THE LANDFILL.
9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL MELL PAIR, MUI-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Mihad Xlund  Field/Project Manager  11. FINAL DISPOSITION:	,
9. PRESENT & COMPLETED WORK IMPACT:  AN ADDITIONAL MELL PAIR, MUI-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Mihad Hund  Field/Project Manager  11. FINAL DISPOSITION:	8 RECOMMENDED DISPOSITION:
AN ADDITIONAL MELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Michael Will  Field/Project Manager  11. FINAL DISPOSITION:	G. ICCOMMENDED DIST COLLECTION
AN ADDITIONAL MELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Michael Will  Field/Project Manager  11. FINAL DISPOSITION:	
AN ADDITIONAL MELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Michael Will  Field/Project Manager  11. FINAL DISPOSITION:	
AN ADDITIONAL MELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Michael Will  Field/Project Manager  11. FINAL DISPOSITION:	
AN ADDITIONAL MELL PAIR, MW-14 AND MW-15  HAVE BEEN INSTALLED  10. REQUESTED BY:  Michael Will  Field/Project Manager  11. FINAL DISPOSITION:	
10. REQUESTED BY:  Michael Xlml  Field/Project Manager  12. APPROVAL:	
10. REQUESTED BY:  Michael Xlml  Field/Project Manager  12. APPROVAL:	AN ADDITIONAL WELL PAIR. MW-14 AND MW-15
10. REQUESTED BY:  Michael Republic 10/11/9 6 Field/Project Manager Date  11. FINAL DISPOSITION:	HAVE BEEN INSTALLED
Michael Xliml Field/Project Manager  11. FINAL DISPOSITION:  12. APPROVAL:	
Michael Xliml Field/Project Manager  11. FINAL DISPOSITION:  12. APPROVAL:	
Michael Xliml Field/Project Manager  11. FINAL DISPOSITION:  12. APPROVAL:	
Michael Elim  Field/Project Manager  Date  11. FINAL DISPOSITION:  12. APPROVAL:	
11. FINAL DISPOSITION:  12. APPROVAL:	michael Hlund. 10/11/96
11. FINAL DISPOSITION:  12. APPROVAL:	Field/Project Manager Date
12. APPROVAL:	1000110,000
	11. FINAL DISPOSITION:
	·
NCD Project Manager Date	12. APPROVAL:
	NGB Project Manager Date

# APPENDIX C TEST PIT LOGS

		<b>=</b> .		lest Pit No.:		Dage	1 of 1	
		ANGK/Stewart ANG Newburgh, N.Y.		F-1		rage	5	
CORPORATION		Landfill Closure Site Investigation Site 1		Location:				
Test Pit Log	D <sub>0</sub>	DAHA-90-93-D-003-D0-0008	1	Northwest of landfill on lawn	fill on lawn			
Excavation Contractor:	Excavator Make/Model:		Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	V x D (feet)		
	John Deer		9 /20 /95 1	1700/1800	35 x 2 x 3	x 3		
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature: Sunny 70's	oerature:	Screening Devic Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	odel): arach Four Gas I	Meter		
		Location of Landfill Waste			FID		Air Monitoring	lgu
					(bpm)	02	LEL H <sub>2</sub> S	8
	×	XXXXXX	•		BG (Background)	BG	BG BG	BG
<b>\</b> 	× ,				KEY			
* *   	×	X X X X X X	• ? • • •		×	-clay		
			<b>( ×</b>		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-Silt		
			•			-Sand		
			•			-Gravel	Boulders	
						-Black layer		
						(Burnt Material) -Waste/Trash	iterial) ash	
Length								
(ft.) North	- 01	20 30		40 South	ŧ			
Soil Description 0-2 ft. 2-3 ft.	Brown clayey { Grey layer- con	Brown clayey SILT, some fc. gravel, some cobbles, few boulders Grey layer- compacted SILT ,platey, breakable by hand f. gravel in layer	is, few boulders land f. gravel in I		Approximate Test Pit Location:  TP-T1 Fence	Pit Location	:uo	
Waste 1.5-2 ft-	Large piece of i	1.5-2 ft- Large piece of metal, wood, one C battery, coke cans (tab pull top) white plastic bags (charateristic of other pits), stockings, one brick, metal pipe	ins (tab pull top) one brick, metal	white pipe	Landfill			

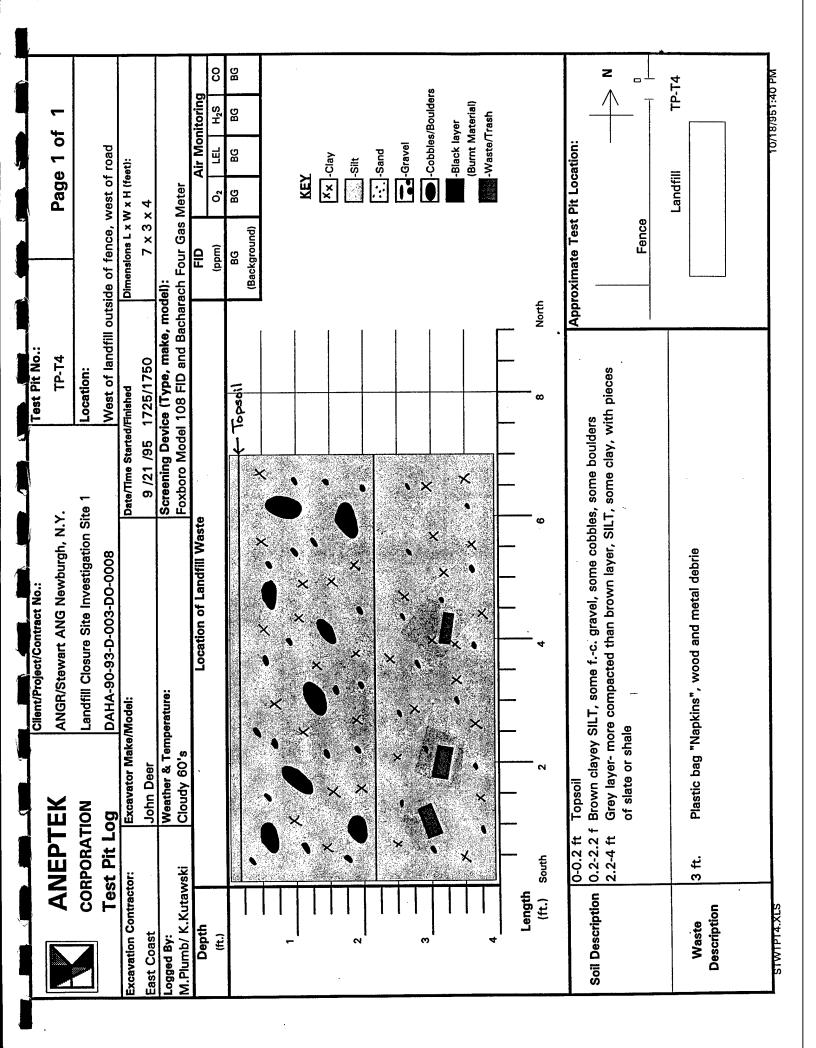
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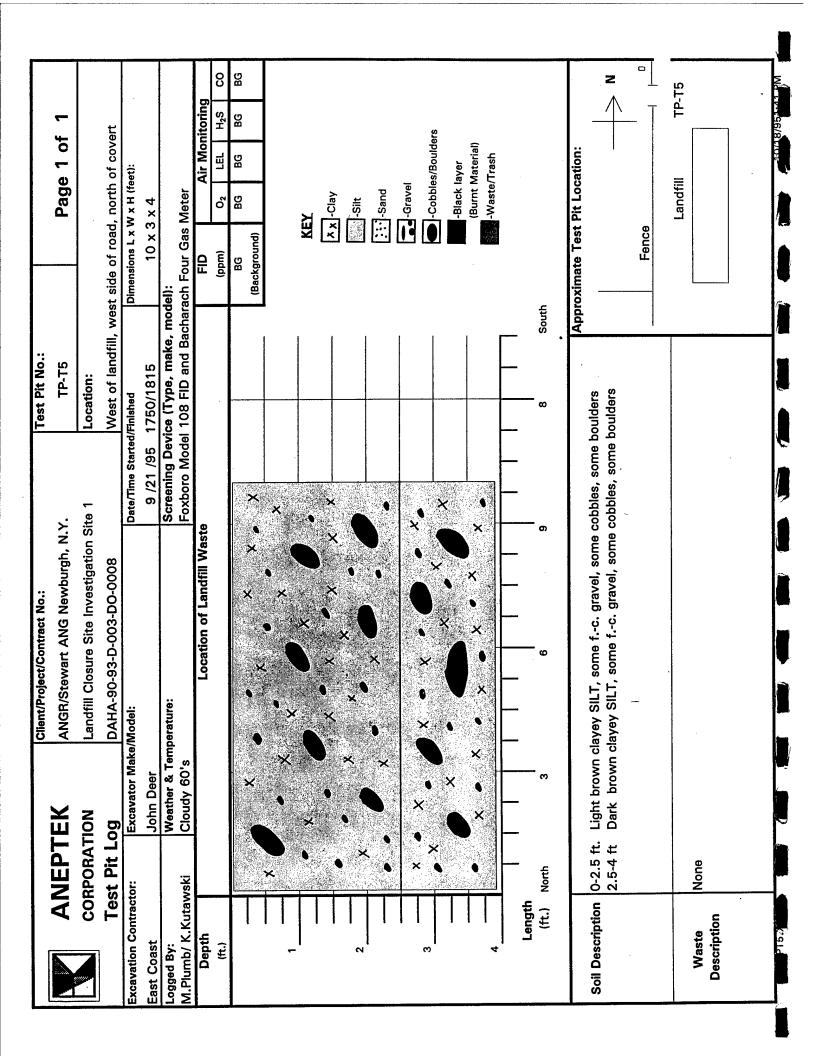
l

		Client/Project/Contract No.:	-	Test Pit No.:					
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b>	TP-T2		Page	Page 1 of	<b>-</b>	
S .	CORPORATION	Landfill Closure Site Investigation Site 1	Site 1	Location:					
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008	.,	North west of landfill on lawn	fill on lawn				
Excavation Contractor:	or: Excavator Make/Model:	s/Model:	Date/Time Started/Finished	Inished	Dimensions L x W xD (feet):	W x D (fee	et):		
East Coast	John Deer		9 /20 /95 1	1800/1815	10 x	2 × 4			,
Logged By: M Plumb/ K Kutawski	Weather & Temperature:	perature:	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	odel): rrach Four Gas	Meter			
Depth		Location of Landfill Waste			FID	1	Air Monitoring	itoring	
(ft.)					(bpm)	02	LEL	H <sub>2</sub> S	င္ပ
					BG	BG	BG	BG	BG
	×	< x	×		(Background)			1	
		· · · · · · · · · · · · · · · · · · ·	×		¥	KEY			
	×	×			! <u> ×</u>	×			
			×						
	×		X			-Sand			
		× × v	\ •			-Gravel	<del>-</del> 00		
'n			×			-Cobb	-Cobbles/Boulders	ers	
	×				•	-Black layer (Burnt Mate	-Black layer (Burnt Material)	•	
4			<b>"</b> ∦⊢			-Wast	-Waste/Trash		
Length			<del>-</del> -	_					
( <del>f.</del> )	South 3	ဖ	<b>o</b>	North .	£				
				Ap	Approximate Test Pit Location:	Pit Loca	ation:		
Soil Description	0-2 ft. Brown clayey	Brown clayey SILT, some fc. gravel, some cobbles, few boulders Grav layer, compacted SILT and clay. f. gravel platey, breakable by hand	es, few boulders tev, breakable bv	hand				-1	Z
		Brown clayey SILT, some fc. gravel, some cobbles, few boulders	es, few boulders		В	TP-T2	T2		
					2			T	
Waste	1.5-2 ft- Metal, two tir	Metal, two tiny pieces of pottery, piece of styrofoam cup, layer of grey has	am cup, layer of	grey has	Landfill			<u> </u>	
Description	white paper								
•	•			<u> </u>					
STWTPBT2.XLS							10/1	10/19/951:53 PM	PM F

		Client/Project/Contract No.:		Test Pit No.:					
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b> :	TP-T3		Page	1 of	<b>-</b>	
S	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008		Northwest of lan	Northwest of landfill (just south of covert)	of covert)	(		
<b>Excavation Contractor:</b>	or: Excavator Make/Model:	/Model:	Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	W x D (fee	et):		
East Coast	TAKEUCHI		9 /20 /95 1	1815/1830	5 x 2 x 3	x 3			
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature: Sunny 70's	perature:	Screening Devic Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	Meter			
Depth		Location of Landfill Waste			FID	1	Air Monitoring	oring	
(ft.)					(mdd)	02	Н	Н	ပ္ပ
	1105901			-	BG (Background)	BG	BG	BG	BG
-	× • · × ·	X O SX O			•				
		X			<b>*   *</b>	KEY  X_\times -clay			
2		S				iğ Ş			
	* * * * * * * * * * * * * * * * * * *	×	-		ا لنا ا	-Sand			
e		× • • • • • • • • • • • • • • • • • • •				-Gravel	-Gravel -Gravel -Cobbles/Boulders	s	
						-Black layer	layer		
4						(Burnt Materia Waste/Trash	(Burnt Material) -Waste/Trash		
Length	_								
(f.)	Southeast 2	. 4	- <sub>'</sub>	z .	Northwest				
Soil Description	0-0.5 ft. Topsoil 1.5-2 ft. Tan clayey SIL 2-3 ft. Grey layer- Co	Topsoil Tan clayey SILT, some fc. gravel, some cobbles, few boulders Grey layer- Compacted wet SILT, some clay, some f. gravel, platey	few boulders ne f. gravel, platey		Approximate Test Pit Location: TP-BT Fence	t Pit Loca	cation: TP-BT3		z
Waste	1.5-2 ft. Metal, soda ca	Metal, soda can, piece of glass, asphalt, shingles, blue plastic	blue plastic		Landfill				
						i	0/06/01	4.4.4.4	Ţ

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		Client/Project/Contract No.:		Test Pit No.:		,			•
	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	; د	TP-T6	·	Page	1 of	<del>-</del>	
ა 	CORPORATION	Landfill Closure Site Investigation Site 1	ite 1	Location:					
¥	Test Pit Log	DAHA-90-93-D-003-DO-0008		West of landfill on lawn, north of ball field	awn, north of	ball field	70		
Excavation Contractor:	ctor: Excavator Make/Model:	/Model:	Date/Time Started/Finished	Finished	Dimensions L x W x D (feet):	N x D (fee	et):		
East Coast	John Deer		9 /21 /95	1815/1845	10×3	3 × 4	,		
Logged By: M Plumb/ K Kirtawski	Weather & Temperature:	perature:	Screening Devidence	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	del): rach Four Gas	Meter			
Depth		Location of Landfill Waste	6		FID	1	Air Monitoring	itoring	
(#:)					(mdd)	0	LEL	H <sub>2</sub> S	8
	*	* * * *			BG	BG	BG	BG	BG
			Forms		(Background)				
-	< × •	×	*0.55	  Indicates begining of waste	of waste				
	\ \ \ \ \ \ <del> </del>					KEY			
1	\ \ \ \				×.	X -Clay			
2		いよびは、				Silt			
		i v				-Sand			
	\				19	-Gravel	_		
m		アメメリーメスト				-Cobbles/Boulders	s/Bould	9rs	
	×	× < )				-Black layer	layer		
4						(Burnt Materia -Waste/Trash	(Burnt Material) -Waste/Trash		
4500		— —				ļ			
(ft.)	West 6	12 18	<b>-</b> "	24 East					
				App	Approximate Test Pit Location:	Pit Loca	ation:		
Soil Description	0-4 ft	Brown clayey SILT, some fc. gravel, some cobbles, few boulders	ss, few boulders				l	$\triangle$	Z
		_	۰۰.		Fence	TP-T6		_ [	1
						l and fill	_	=	-
Waste	2 ft bgs (12 ft East) Beç	2 ft bgs (12 ft East) Beginning of waste- Pants, beer cans					_		
Description	Beginning of waste coni	Beginning of waste conincides with EM Survey and scape in ground	ground						
STWIP16.XLS							10/20/	10/20/9510:24 AM	AM

		Client/Project/Contract No.:		Test Pit No.:					
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b>	TP-T7		Page	3 1 of	<del>-</del>	
SOF	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008	1	West of landfill on lawn, north of ball field	lawn, north of	ball fiel	<b>ס</b>		
Excavation Contractor:	or: Excavator Make/Model:	/Model:	Date/Time Started/Finished	nished	Dimensions L x W x H (feet):	W x H (fe	et):		
East Coast	John Deer		9 /22 /95 0	0800/0810	5 x 3 x 2	x 2			
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature: ski Cloudy 60's	perature:	Screening Device Foxboro Model 1	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	odel): arach Four Gas	Meter			
Depth		Location of Landfill Waste			FID		Air Monitoring	itoring	
(ft.)					(bbm)	02	LEL	H <sub>2</sub> S	တ
	×	- X - X			BG (Background)	BG	BB	9g	BG
-		×				Ì			
		×			- <del>L.</del>	X -Clay			,
2					Lance (	-Silt			
				F		Sand	_		
, ,						Gravel -Gravel -Gravel	g-Gravel ]-Cobbles/Boulders∘	lers:	
						-Black	-Black layer	•	
4						(Burni	(Burnt Material) -Waste/Trash	<u>-</u>	
Length			_						
	West 2	.4	- <sub>6</sub>	8 East	ŧ				
Soil Description				Ā	Approximate Test Pit Location:	Pit Loc	ation:	_	
	0-2 ft Brown clayey SILT 2 ft. Grey layer bottom breakable by hand	Brown clayey SILT, some fc. gravel, some cobbles, few boulders Grey layer bottom of pit- Compacted SILT, some clay, f. gravel, platey breakable by hand	es, few boulders day, f. gravel, plat	he:	TP-T7 Fence			<del></del>	z
Waste	2 ft. Soda cans, pl	Soda cans, plastic toy car, glass, paper				Landfill		_	
						***			

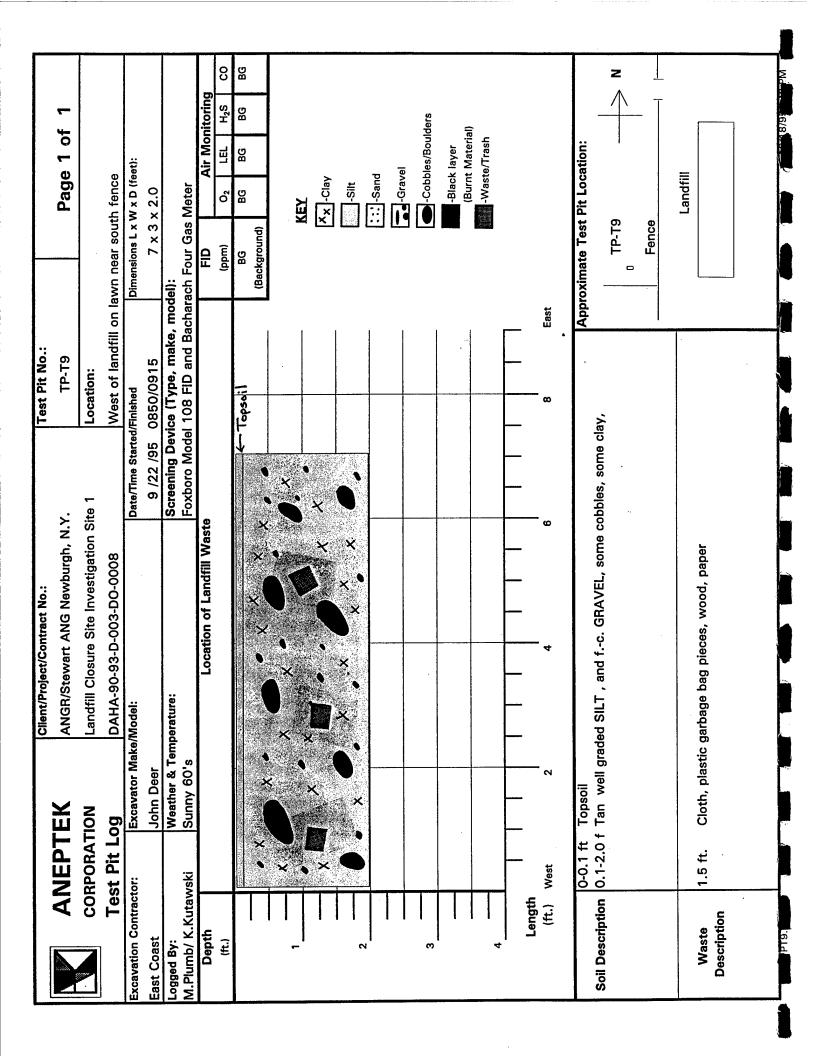
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		Client/Project/Contract No.:		Test Pit No.:	,				
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b> :	TP-T8		Page 1	1 of	_	
COR	CORPORATION	Landfill Closure Site Investigation Site 1	Site 1	Location:					
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008		West of landfill on lawn, north of ball field	awn, north of	ball field	70		
Excavation Contractor:	or: Excavator Make/Model:	Model:	Date/Time Started/Finished	Finished	Dimensions L x W xD (feet):	V xD (fee	et):		
East Coast	John Deer		9 /22 /95 (	0800/0810	5×3×4	x 4			
Logged By: M Plumb/ K Kutawski	Weather & Temperature:	oerature:	Screening Devided Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	del): rach Four Gas	Meter			
Depth		Location of Landfill Waste	9.		FID	1	Air Monitoring	itoring	Ī
(ft.)					(ppm)	0,	LEL	H <sub>2</sub> S	ខ
					BG (Background)	9g	BG	Bg	BG
-								1	
		·			KEY				
7	* * * * <b>*</b>	X O X X X X			X <sub>X</sub> -Clay	lay			
		× *			Sand	and and			
	×	×			-Gravel	iravei			
		***				-Cobbles/Boulders	oulders		
4		*			8	Burnt Material)	r erial) وا		
						/aste/ i ra	S		
Length (ft.) \	West 2	4	<b>–</b> <sub>9</sub>	8 East					
Soil Description	0-0.1 ft Topsoil 0.1-1.5 f Black layer- Co	Topsoil Black layer- Compacted similar to burnt material, contains gravel	contains gravel	App	Approximate Test Pit Location:	Pit Loca	ation:	_	
	1.5-1.7 f Tan SILT, and fc. gravel	Tan SILT, and fc. gravel Orange-brown clavey SILT, some fc. gravel, some cobbles, few boulders	ie čobbles, few b	oulders	TP-T8			$\uparrow$	z
		Grey layer bottom of pit- Compacted SILT, some clay, f. gravel, platey breakable by hand	clay, f. gravel, ple	atey	Fence			- [	
Waste	2 ft. bgs- (20 ft east)- Soda cans wood	oda cans wood				Landfill			
Description									
STANTE							10/1	10/18/951:47 PIV	Į Ma Ma

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		Client/Project/Contract No.:	Te	Test Pit No.:	<b>,</b>	i.	ı		
V	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<u>.</u>	TP-T10		Page	3 1 of	f 1	
ŏ	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
ř	Test Pit Log	DAHA-90-93-D-003-DO-0008	W	West of landfill					
Excavation Contractor:	actor: Excavator Make/Model:	Model:	Date/Time Started/Finished	peqs	Dimensions L x W x D (feet):	N x D (fe	et):		
East Coast	John Deer		9 /22 /95 09	0915/0930	7×2×3	ω ×			
Logged By: M.Plumb/ K.Kutawski		erature:	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	(Type, make, mo	del): rach Four Gas	Meter			
Depth		Location of Landfill Waste			FID		Air Monitoring	nitoring	
(ft.)					(bpm)	02	LEL	H <sub>2</sub> S	ខ
				·	BG (Background)	8G	BG	8g	BG
	× × × × × × × × × × × × × × × × × × ×	× × × × × × × × × × × × × × × × × × ×	××××		<b>⊠</b> [3	KEY			
~	* * * * * * * * * * * * * * * * * * *	XXX	• * • *			Z Clay			
						-Sand			
 	× × × × × × × × × × × × × × × × × × ×	× × × × × × × × × × × × × × × × × × ×				-Gravel			
						Cobbles/Bo	-Cobbles/Boulders -Black layer	lers	
4						(Burnt Material	(Burnt Material) -Waste/Trash	_	
						ı			
Length (ft.)	th East 2	<sub>4</sub>	<del></del>	8 West					
	Surface Asphalt			App	Approximate Test Pit Location:	Pit Loc	ation:		
Soil Description	0-0.5 ft.	Brown well graded SILT, and fc. GRAVEL, some cobbles, some clay,	cobbles, some cla	<u>`</u>	TP-T10	c			Z
•		Grey-green layer- compacted, platey, SILT, some clay, some fine gravel	lay, some fine grav	le yelo		•			:
	All layers very compacted	compacted	or realizables, see	lilio ciay,					
Waste	None					Landfill	_		
Description									
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	1	Client/Project/Contract No.:		Test Pit No.:					
A N	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b> :	TP-T1A		Page	1 of	_	
100	CORPORATION	Landfill Closure Site Investigation Site 1	ite 1	Location:					
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008		West of landfill on lawn near south fence	awn near sout	h fence			
Excavation Contractor:	or: Excavator Make/Model:	/Model:	Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	W x D (fee	et):		
East Coast	John Deer		9 /19 /95 1	1445/1530	27 × 3 × 3	8 × 3			
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature:	perature:	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	del): ach Four Gas	Meter			
Depth		Location of Landfill Waste			얦	1	Air Monitoring	toring	
(ft.)					(mdd)	02	LEL	H <sub>2</sub> S	8
	X	•× × × × • × • • •	Topsoil		BG (Background)	BG	BG	BG	BG
-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
		X			<b>X</b> 6	KEY			
7		×・			× ] [				
						Sand			
						-Gravel	-Gravel	5	
					1	-Black laver	laver	<u>o</u>	
4						(Burnt Material	(Burnt Material)		
Lenath									
	West 9	18 27		36 East					
Soil Description	4	Topsoil  Tan well graded SILT, and fc. GRAVEL, some cobbles, some clay, Black layer- compacted, looks like burnt material (coal ash or slag) has piecse that resemble coal (black, shinny) more likely burnt material	obbles, some claroal ash or slag) likely burnt mate	- -	Approximate Test Pit Location:	Pit Loca A	ation:		z
	2.5-3 1t lan well grad	I an weil graded Sizi , and ic. GRAVEL, some coppies, some clay,	obbies, some cia		rence			T	
Waste Description	1.5 ft. Coke cans, sc	Coke cans, scraps of concrete				Landfill			· · · ·
		, i							

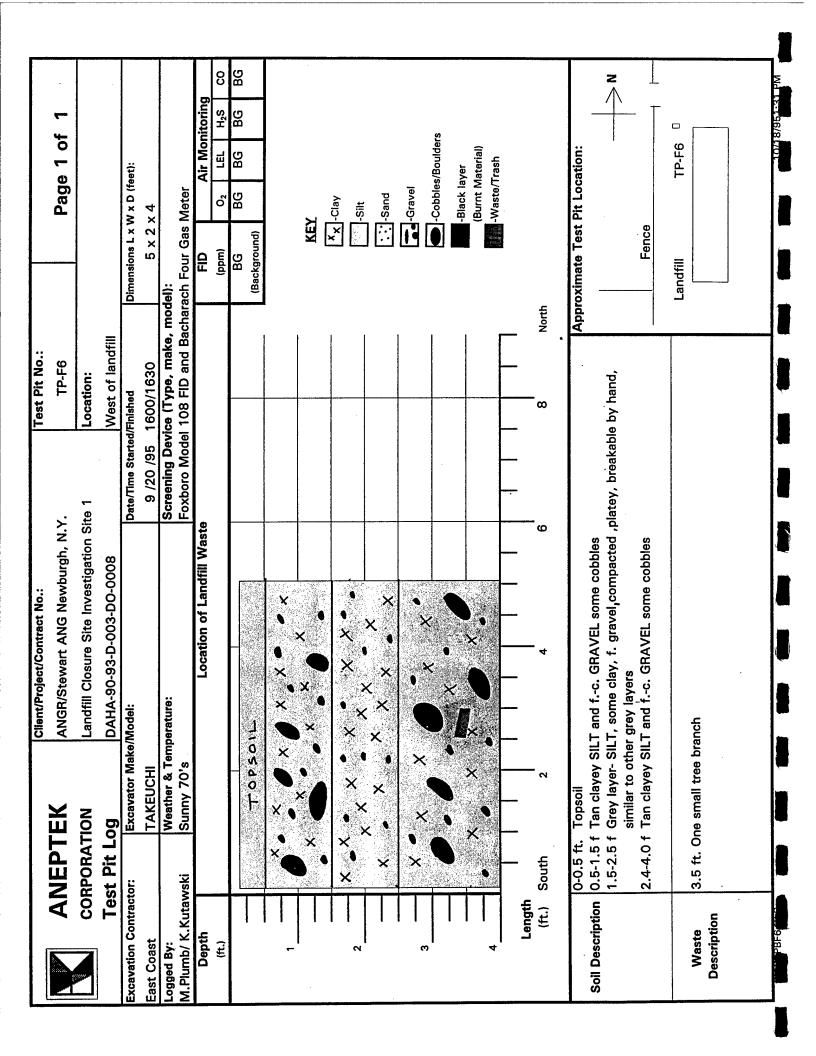
		Client/Project/Contract No.:		Test Pit No.:					
V I	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	>:	TP-F1		Page	3 1 of	<b>-</b>	
ن ا	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
F	Test Pit Log	DAHA-90-93-D-003-DO-0008		West of landfill					
Excavation Contractor:	actor: Excavator Make/Model:		Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	V x D (fe	et):		
East Coast	TAKEUCHI		9 /20 /95 1	1145/1200	5×2×4	4 <b>4</b>			
Logged By:		perature:	Screening Devic	Screening Device (Type, make, model):	del):				
M.Plumb/ K.Kutawski	awski Sunny /0's	7 0 1100	Foxboro Model	Foxboro Model 108 FID and bacharach Four Gas Meter	acn rour sas				
Depth (#)		Location of Landfill Waste	Ф		AD (maa)	6	Air Monitoring	itoring H.S	8
(m)		-			BG	BG	BG	BG	BG
1	<u> </u>				(Background)				
l I -									
						KEY			
1						X Clay	lay		
~						-Silt	±		
	<b>)</b>					Sand:::	and	•	
ļ						-Gravel	raveí		
က						Į	-Cobbles/Boulders	oulders	
1						ā	-Black layer	<b>.</b>	
	•					ğ ×-	(Burnt Material) -Waste/Trash	erial) sh	
      -									
Length (ft.)	th — — — — — — — — — — — — — — — — — — —	— 4 —	— <sub>9</sub>	8 South	e				
					Annrovimete Test Dit I ocetion:	ig l	ation.		
Soil Description   0-4 ft.		Brown, well graded SILT and mc. GRAVEL some cobbles (fill) Well developed roots 0-1 ft.	cobbles (fill)						Z
		-		1	Fence			- T	
					l andfill			- 1 <u>-</u> 1	-
Waste Description	1.0 ft- Paper 1.0-1.5 ft- Wood								
									:
STWTPBF1.XLS							10/1	10/18/951:26 PM	₽

		Client/Project/Contract No.:	Ţ	Test Pit No.:					
7	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;:</b>	TP-F2		Page	1 of	<b>-</b>	
0	CORPORATION	Landfill Closure Site Investigation Site 1	1	Location:					
<b>–</b>	Test Pit Log	DAHA-90-93-D-003-DO-0008	>	West of landfill					
Excavation Contractor:	actor: Excavator Make/Model:	Model:	Date/Time Started/Finished	nished	Dimensions L x W x D (feet):	N x D (feet	ä		
East Coast	TAKEUCHI		9 /20 /95 12	1205/1245	5×2×4	4 4			
Logged By:		oerature:	Screening Device (Type, make, model):	(Type, make, n	nodel):				
M.Plumb/ K.Kutawski	awski Sunny 70's		Foxboro Model 108 FID and Bacharach Four Gas Meter	08 FID and Bac	narach Four Gas				
Depth		Location of Landfill Waste			FID	۱ ۱	탕	oring	
(ft.)					(mdd)	$\dashv$	-	H <sub>2</sub> S	8
	Topsoil	_			BG (Background)	BG	BG BC	BG	BG
-									
					A	KEY			
~					×	X -Clay			
						Silt			
۱ I «					<u>.</u>	-Saile Gravel			
						Cobbles/Boulders	s/Boulder	ψ	
4						-Black layer (Burnt Material)	ayer Aaterial)	•	
•						-Waste/Trash	Trash		
(ft.)	n North 2	<b>-</b> 4	<b>-</b> "	°S .	South				
Soil Description	0-0.5 ft 0.5-1.5 f 1.5-1.9 f 2-3 ft 3-3.4 ft	Topsoil Brown, well graded SILT and mc. GRAVEL some cobbles Black layer- compacted, burnt material, platey shinny, decayed organics Brown, well graded SILT and mc. GRAVEL some cobbles Black layer- compacted, burnt material, platey shinny, decayed organics	cobbles iny, decayed organ cóbbles iny, decayed organ		Approximate Test Pit Location:	Pit Local	tion:		Z
Waste Description	#≐	nts, glass, coke can, piece of plastic			Landfill		TP-F2		

	ANEPTEK	Client/Project/Contract No.: ANGR/Stewart ANG Newburdh. N.Y.		Test Pit No.: TP-F3		Page 1	of 1	
			7					
	CORPORATION Test Pit Log	Landfill Closure Site Investigation Site 1 DAHA-90-93-D-003-D0-0008		Location: West of landfill, inside of fence	e of fence			
Excavation Contractor:	tor: Excavator Make/Model:	/Model:	Date/Time Started/Finished		Dimensions L x W x D (feet):	V x D (feet):		
East Coast			9 /20 /95 14	1430/1500	7×2×	۲4		
Logged By: M Plumb/ K Kirtawski	Weather & Temperature:	perature:	Screening Device Foxboro Model 1	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	el): ch Four Gas l	Meter		
Depth		Location of Landfill Waste			FID		Air Monitoring	Į g
( <del>f</del> .)					(mdd)	O <sub>2</sub> LEL	IL H <sub>2</sub> S	_
			L X		BG (Background)		BG BG	BG
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,		/			NI N	×X -Clay		
7	X	•				-Silt ∴-Sand		
· ·	× × × × × × × × × × × × × × × × × × ×	× × × × × × × × × × × × × × × × × × ×	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			-Gravel		
			X   X			-Cobbles/Boulders	Soulders	
4	×××××××××××××××××××××××××××××××××××××××	× × × × × × ×	<b>\</b>			-Black layer (Burnt Material)	er terial) gob	
						-Waste/ Irasn	asu	
Lengtn (ft.)	North 2	4 4		8 South				
Soil Description	یر بر		v boulders hand (trash in this		Approximate Test Pit Location:	Pit Locatio	Ë	; ,
	2-4 ft. Brown clayey SILT and fc.	SILT and fc. GRAVEL, cobbles, few boulders	v boulders		Fence	1		z
					Landfill	<sup>0</sup> TP-F3	Ę.	
Waste Description	1.5 ft. Coke can (flatten, co and chuncks of glass	1.5 ft. Coke can (flatten, could be chared) and small pieces of wood, paper, cloth scrapes and chuncks of glass	of wood, paper, cl	oth scrapes				
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		Client/Project/Contract No.:		Test Pit No.:				
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.		TP-F4		Page 1 of	f 1	
8	CORPORATION	Landfill Closure Site Investigation Site 1		Location:				
Te	Test Pit Log	DAHA-90-93-D-003-DO-0008		West of landfill				
Excavation Contractor:		Excavator Make/Model:	Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	V x D (feet):		
East Coast	TAKEUCHI		9 /20 /95 1	1530/1545	7×2×2	x 2		
Logged By: M.Plumb/ K.Kutawski		Weather & Temperature: Sunny 70's	Screening Devic Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	del): rach Four Gas	Meter		
Depth		Location of Landfill Waste			FID	Air Monitoring	nitoring	
(ft.)					(ppm)	$\vdash$	H <sub>2</sub> S	ဗ
	X X	×	××		BG (Background)	BG BG	BG	BG
-	× ,×	X X X X X X X X X X X X X X X X X X X				VEV		
		X X X X X X X X X X X X X X X X X X X				Xx -clay		
	* • × • ×		××		<u>                                    </u>	-Silt		
					ا تنا	-Sand		
						-Gravel	0 10 10	
က						Place laver	2	
						(Burnt Material)	ial)	
4						-Waste/Trash	<b>.</b>	
	_							
Lengtn (ft.)	Northwest 2	4 4		8 Sout	Southeast			
Soil Description	0-1.5 ft. 1.5-2 ft. 1.4 ft.	Brown to tan clayey SILT and fc. GRAVEL, cobbles, few boulders- roots to 1 ft Grey green layer- compacted, SILT, some clay, f. gravel, platety, breakable by hand (smells like sewage sludge) Lens of black material- looks like burnt material/ash	es, few boulders iravel platety, bre		Approximate Test Pit Location:	Pit Location:		Z
	-				5	:		
Waste Description	1.5 ft. Coke can (fla and chuncks c	1.5 ft. Coke can (flatten, could be chared) and small pieces of wood, paper, cloth scrapes and chuncks of glass, bricks, newpaper (preserved indicates anaerebic conditions) $\nabla \mathcal{L}(\mathbf{x})$	of wood, paper, cocates anaerebic	loth scrapes conditions)	Landfill	TP-F4		
S BF4.						10/2/01	MA 80-1168/02/01	M

	ANICOTOV	Chent/Project/Contract NO.:		est Fit No.:		•	,		
<b>T</b>		ANGR/Stewart ANG Newburgh, N.Y.	<u></u>	TP-F5		Page 1 of	1 01	_	
8	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
Te	Test Pit Log	DAHA-90-93-D-003-DO-0008	>	West of landfill					
Excavation Contractor:	tor: Excavator Make/Model:	Model:	Date/Time Started/Finished		Dimensions L x W x D (feet):	x D (fee	ä		
East Coast	TAKEUCHI		9 /20 /95 15	1545/1600	5×2×4	4			
Logged By: M Plumb/ K Kutawski	Weather & Temperature:	erature:	Screening Device	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	il): ch Four Gas N	leter			
Depth		Location of Landfill Waste			윤		Air Monitoring	toring	
( <del>f.</del> )					(mdd)	02	LE L	H <sub>2</sub> S	8
	_ X	XX			BG (Background)	Bg	BG	BG	BG
-	**************************************	× × × × × × × × × × × × × × × × × × ×							
					KEY	L Clav			
7	•				Š	-Silt			
	×					-Sand			
<u> </u>					Č	-Gravel	7		
	Tagana and Anna and A	X				-Cobbies/bo	ecuiuei s		
4	* * * * * * * * * * * * * * * * * * *	**************************************				(Burnt Material) -Waste/Trash	terial) ash		
1 100									
(ft.)	North 2	4 6	- 0	8 South					
Soil Description	0-3.5 ft. 3.5-4 ft.	Brown clayey SILT and fc. GRAVEL, cobbles, few boulders Grey green layer- compacted, SILT and CLAY,platety, breakable by hand, f.	v boulders ety, breakable by h		Approximate Test Pit Location:	it Loca	tion:		
	gravel Smells like sewage sludge	age sludge			Fence		l	-	<b>z</b>
						TDER			
Waste Description	1.5 ft. Coke cans and	Coke cans and small pieces of wood fragments, tree debrie paper, rags	e debrie paper, rag					r	
	bricks, scapes of metal	ıf metal						<b>-</b> 1	
erwirence ore							3010	7857.70	DK.X



									ļ
			Client/Project/Contract No.:		est Pit No.:				
	ANEPTEK	EK	ANGR/Stewart ANG Newburgh, N.Y.	·	TP-F7		Page 1 of		1
	CORPORATION	NOI	Landfill Closure Site Investigation Site 1		Location:				
	Test Pit Log	og	DAHA-90-93-D-003-DO-0008		South of landfill on slope	slope			
<b>Excavation Contractor:</b>	tractor:	Excavator Make/Model:	Model:	Date/Time Started/Finished	Inished	Dimensions L x W x D (feet):	W x D (fee	t):	
East Coast		TAKEUCHI		9 /21 /95 1045/1100	045/1100	5 x 2 x 2	× 2		
Logged By:		Weather & Temperature:	oerature:	Screening Devic	Screening Device (Type, make, model):	odel):			
M.Plumb/ K.Kutawski	utawski	Clondy 60's		Foxboro Model	Foxboro Model 108 FID and Bacharach Four Gas Meter	ırach Four Gas	Meter		
Depth			Location of Landfill Waste			FID	A	Air Monitoring	ring
(ft.)						(mdd)	02	LEL H2	H <sub>2</sub> S
	<u> </u>	×				BG (Background)	BG	BG 1 p	1 ppm
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	*	• × • ×				KEY			
1 1		×				XX -Clay	Лау		
7	•	×				s-	-Silt		
1						Sand	and		
<b>м</b>						-Gravel	iravel		
'						o O	-Cobbles/Boulders	ılders	
, 4							-Black layer (Burnt Material)	ial)	
4						×-	-Waste/Trash	_	
Length	gth —		   		_				
Œ,	(ft.) North	6	9		8 South	£			
					Ap	Approximate Test Pit Location:	Pit Loca	tion:	
Soil Description   0-2 ft.   2 ft.	ion   0-2 ft.  2 ft.	Light brown clayey SILT Possible gray layer on b	Light brown clayey SILT, some tc. gravel, little cobbles Possible gray layer on bottom- pieces of SILT , some clay, f. gravel	obbles ne clay, f. gravel					$\Lambda$
			-	••					

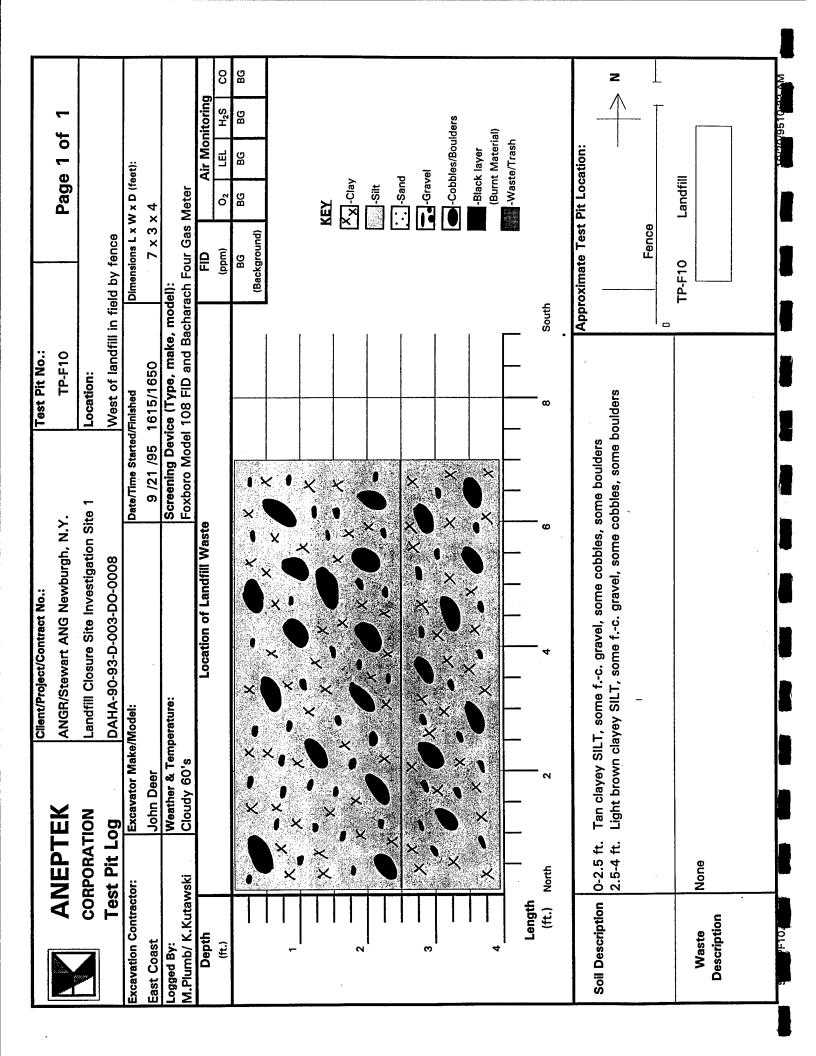
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2 10/18/951:36 PM Landfill Fence TP-F7 Household trash bag- septic type odor 2 ft Waste Description STWTPF7.XLS

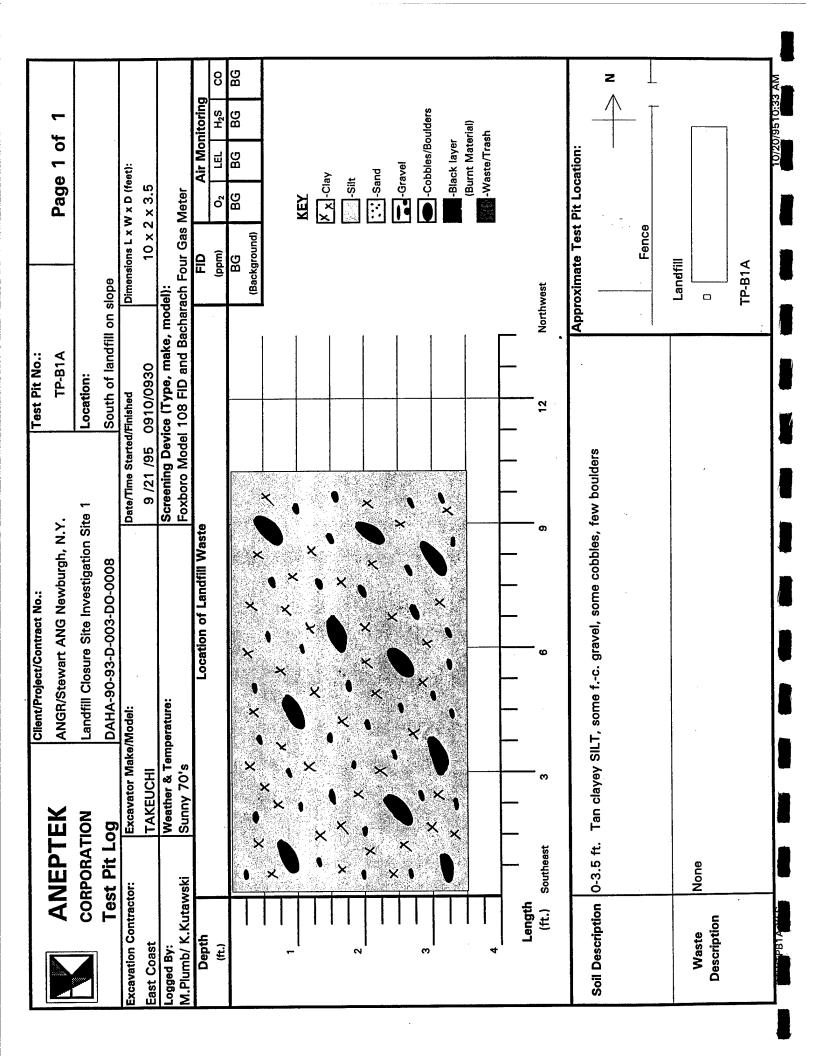
		Client/Project/Contract No.:		Test Pit No.:					
	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	· ·	TP-F8		Page	1 of	<b>-</b>	
0	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
<b>-</b>	Test Pit Log	DAHA-90-93-D-003-DO-0008	1	West of landfill in field by fence	eld by fence				
Excavation Contractor:	actor: Excavator Make/Model:	Model:	Date/Time Started/Finished	inished	Dimensions L x W x H (feet):	V x H (fec	et):		
East Coast	TAKEUCHI		9 /21 /95 1	1520/1545	7×3×4	4 ×			
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature: tawski Cloudy 60's	oerature:	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	iel): ach Four Gas I	Meter			
Depth		Location of Landfill Waste			FID	1	Air Monitoring	itoring	
(fr.)					(mdd)	02	Ē	H <sub>2</sub> S	ខ
				Topson	BG (Background)	BG	BG	BG	BG
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	•					KEY			
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		×				-Silt	E		
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)   	× × × × × × ×		\ \ \ \ \ \ \			ই • • • • • • • • • • • • • • • • • • •	-Cobbles/Boulders	ılders	
4	* * * * * * * * * * * * * * * * * * *	**************************************	× × × × × × × × × × × × × × × × × × ×			(Bur	(Burnt Material)	ial)	
dtore									
(ft.)	South 2	4	- 0	8 North					
Soil Description	0-0.2 ft 0.2-1.2 f	Topsoil Brown loose clayey SILT, some fc. gravel, some cobbles	cobbles	App	Approximate Test Pit Location:	Pit Loca	ation:		
	4- 4-	Light grey clayey SILT, some fc. gravel, some cobbles Brown more compact clayey SILT, some fc. gravel, some cobbles	bbles el, some cobbles	. •	1			1	z
	2.5-4 ft Grey-green lay test boring 3A	Grey-green layer- compacted SIL I and CLAY looks like sample torm near by test boring 3A	like sample torm	near by	Fence			T	
Waste	2.5 ft Metal can in side of pit wall	de of pit wall			TP-F8	Landfill		<u></u>	
Description								<del></del>	
							\$6/07	7051-26	NA D

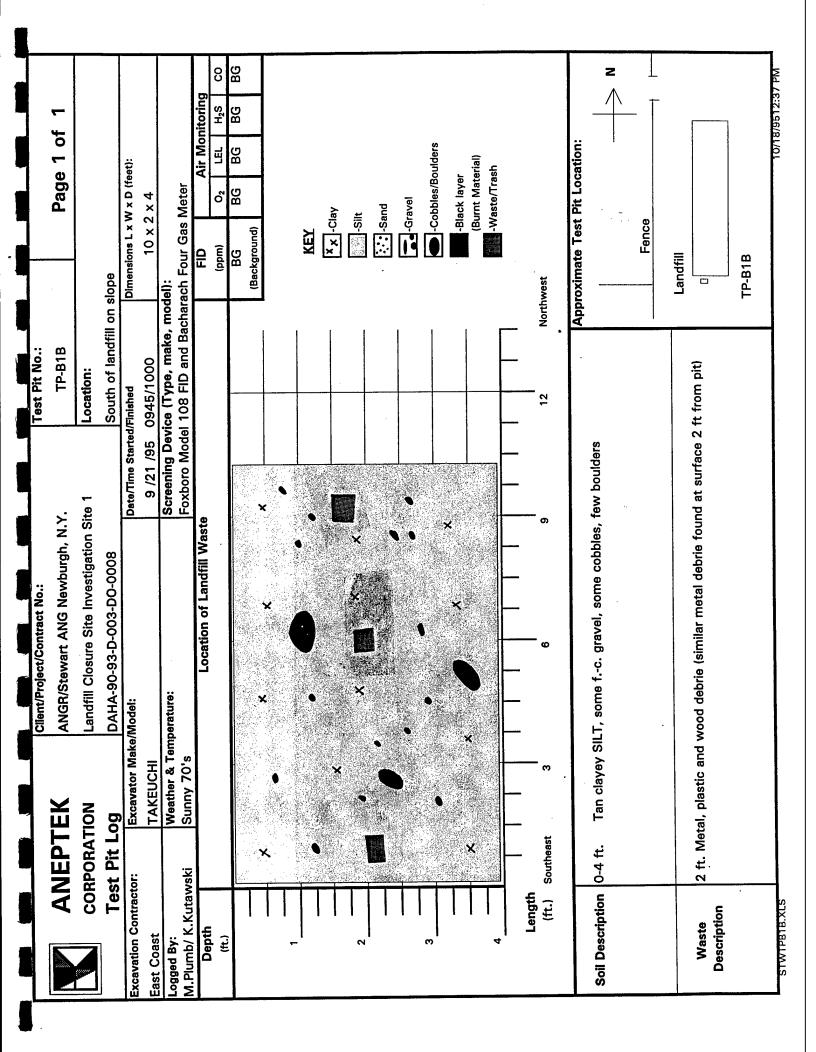
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		Client/Project/Contract No.:		Test Pit No.:					
	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b> :	TP-F9		Page	1 of	<b>-</b>	
	CORPORATION	Landfill Closure Site Investigation Site 1	Site 1	Location:			:		
	Test Pit Log	DAHA-90-93-D-003-DO-0008		West of landfill in field by fence	ield by fence				
Excavation Contractor:	ractor: Excavator Make/Model:	ake/Model:	Date/Time Started/Finished	Inished	Dimensions L x W x D (feet):	V x D (fe	et):		
East Coast	TAKEUCHI		9 /21 /95 1	1545/1615	7×3×4	4 ×			
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature:	emperature: S	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	del): rach Four Gas	Meter			
Depth		Location of Landfill Waste			FID	1	Air Monitoring	itoring	
(ft.)					(bpm)	02	LEL	H <sub>2</sub> S	8
		C.			BG	98	BG	. BG	BG
ı !					(Background)				
<u></u>	× )		<						
	<b>^</b>		•			KEY			
l i			<u> </u>				<b>}</b> a ←		
, 1			    •			Sand .:	, <u>e</u>		
1	-		<u> </u>			-Grave	ave		
l m							Cobbles/Bouldere	dere	
1			×				-Black layer		
I I	\ \ \ 					(Bu	(Burnt Material) -Waste/Trash	rial) sh	
•									
Lengtn (ft.)	gtn ) Northwest 2	_ 4	<del></del> 9	8 Sout	Southeast				
				App	Approximate Test Pit Location:	Pit Loc	ation:		
Soil Description	0-2.5 ft. 2.5-4 ft.	Tan clayey SILT, some fc. gravel, some cobbles, some boulders Light brown clayey SILT, some fc. gravel, some cobbles, some boulders	, some boulders cobbles, some bo	ulders			ł	$\uparrow$	z
		_	•	•	Fence			_ ]	]
					TP_E0	l andfill	_	<del>-</del>	_
Waste	One brick							Γ	
Description									
			•						:
STWTPF9.XLS				,			10/	10/18/951:37 PM	ΡΜ



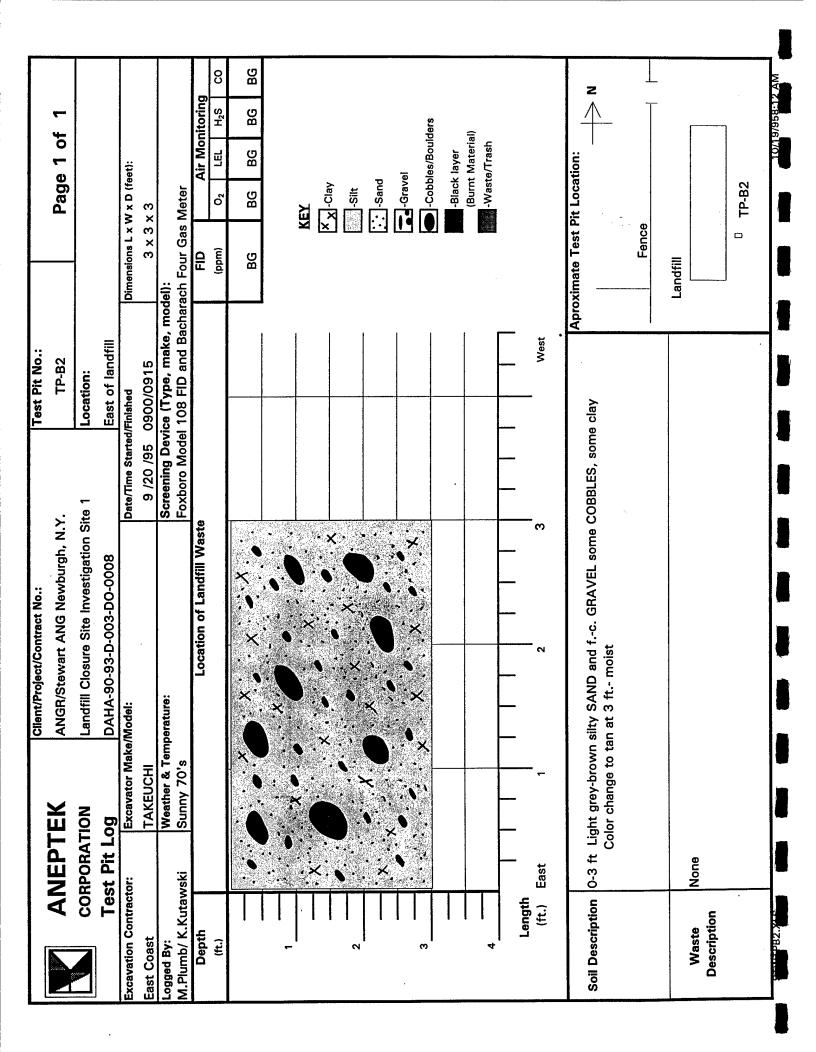
		Client/Project/Contract No.:	<u></u>	Test Pit No.:				
AN	ANEPIEK	ANGR/Stewart ANG Newburgh, N.Y.	<u> </u>	TP-B1		Page 1 of	of 1	
CORI	CORPORATION	Landfill Closure Site Investigation Site 1	•	Location:				
Test	Test Pit Log	DAHA-90-93-D-003-DO-0008	E	East of landfill				
Excavation Contractor:	r: Excavator Make/Model:	Model:	Date/Time Started/Finished		Dimensions L $\times$ W $\times$ H(feet):	c H(feet):		
East Coast	TAKEUCHI		9 /20 /95 0	0845/0900	3 x 3 x 3	3		
Logged By:		perature:	Screening Device	Screening Device (Type, make, model):	D:			
M.Plumb/ K.Kutawski			Foxboro Model 1	Foxboro Model 108 FID and Bacharach Four Gas Meter	ch Four Gas M	- 1		
Depth		Location of Landfill Waste			<u> </u>		Air Monitoring	
(ft.)						4	H <sub>2</sub> S	8
		X			BG (Background)	BG BG	<u>B</u>	BG
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	×,× , ·	X				Sand		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	X					-Gravel		
						-Cobbles/Boulders	oulders	
						-Black layer		
4			-			(Burnt Material)	orial)	
Lenath	 					-waste/ rra		
	East 1	. 2	_	West				
		H400 00000 13/1000	Hi wale care		Approximate Test Pit Location:	t Location:		
Soil Description	انع تد اعمار Sote color change Note color change	0-3 Tt Tan dry well graded SiLT and IC. GnAVEL Sollie Cobbles Sollie Clay, little I. SAND Note color change from light tan, tan, brown	ופא שלווופ כומץ, וונ	ONICO : 101	• • •		1	z
					Fence		-	
				,	landfill		-	
Waste	None					ı		
Description								
·					<sup>0</sup> TP-B1			
SIX TRAINS						10/	10/19/958:18 AM	AM





		Client/Project/Contract No.:		Test Pit No.:			-		
AN AN	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	>:	TP-B1C		Page	1 of	_	
COR	CORPORATION	Landfill Closure Site Investigation Site 1	ite 1	Location:					
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008		South of landfill on slope	edols				
Excavation Contractor:	or: Excavator Make/Model:	/Model:	Date/Time Started/Finished	Finished	Dimensions L x W x D (feet):	W x D (fee	<del>.t.</del>		
East Coast	TAKEUCHI		9 /21 /95	1000/1015	7×2×4	× 4			
Logged By:	Weather & Temperature:	perature:	Screening Devi	Screening Device (Type, make, model): Ecybers Model 108 FID and Bacharach Four Gas Meter	odel): grach Four Gae	Motor			
Miriumbi A.nutawan					FID	1	Air Monitoring	foring	
(#:)			į		(mdd)	ő	LEL	H <sub>2</sub> S	8
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	· × · · · · · · · · · · · · · · · · · ·					-Silt	Ţ		
,		× × ×				-Gravel	s le		
	× .	× .				Ş	-Cobbles/Boulders	lders	
	. ×					-Bla	-Black layer	-	
4			-			lbur Wa	(burnt Materia -Waste/Trash	<del>-</del>	
Length				<u> </u>					
	East 3	. 9		12 West	·				
					Approximate Test Pit Location:	Pit Loca	ation:	ŀ	
Soil Description	0-4 ft. Tan clayey Sll	Tan clayey SILT, little f. SAND some fc. gravel, some cobbles, few boulders	some cobbles, fe	w boulders		•	İ	$\uparrow$	z
				ŀ	Fence			<u> </u>	
					1134000			-	
Waste	Surface- $2 \times 3$ ft concrete slab	rte slab			Landilli				
Description	No waste found in pit.						-	·	
					P-B1C				

		1	Client/Project/Contract No.:		Test Pit No.:					
A	ANEPTEK	<b>*</b>	ANGR/Stewart ANG Newburgh, N.Y.	·-	TP-B1D		Page	1 of	1	
3	CORPORATION	z	Landfill Closure Site Investigation Site 1	ite 1	Location:					
Te	<b>Test Pit Log</b>		DAHA-90-93-D-003-DO-0008		South of landfill on slope	slope				
<b>Excavation Contractor:</b>		Excavator Make/Model:	Model:	Date/Time Started/Finished	Inished	Dimensions L x W x D (feet):	V x D (fee	et):		
East Coast	7	TAKEUCHI		9 /21 /95	1015/1030	7×2×3.5	x 3.5			
Logged By: M.Plumb/ K.Kutawski		Weather & Temperature: Cloudy 60's	erature:	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	<b>del):</b> rach Four Gas	Meter			
Depth			Location of Landfill Waste			FID		Air Monitoring	itoring	
(ft.)		:				(mdd)	02	LEF	H <sub>2</sub> S	ខ
	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		iozdoT -> x			BG	BG	BG	BG	BG
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			××× ×			<b>⋈</b> [2	KEY			
~		^ × × × × •	X				Zz Clay			
	×	×	<b>9</b> :•:•ו				Sand			
, m						ט בט	-Gravel	- <del>-                                  </del>		
							-Cobbles/Bo	-Cobbles/Boulders -Black layer	ders	
							(Burnt	(Burnt Material) -Waste/Trash	≘	
•	-  -  -									
Length (ft.)	n East	— <sub>e</sub>	<b>-</b> 6	<del></del> 6	12 West					
	ľ	Topsoil				Approximate Test Pit Location:	Pit Loc	ation:		l
Soil Description	0.2-2 ft.	an clayey SIL	Tan clayey SILT, little f. SAND some fc. gravel, some cobbles, few boulders	some cobbles, fer	w boulders		•			Z
		oil appears to	Soil appears to be iron stained				_		<u>\</u>	ļ
	3-3.5 ft. La	Layer of rocks				Fence			<b>T</b>	
Waste	3.5 ft Pi	Pieces of wood and plastic	l and plastic			0TP-81D	Landfill		ſ	
Description	•									
	•									
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		Cilent/Project/Contract No.:		Test Pit No.:					
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.		TP-82		Page	e 1 of	7-	
8	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
Te	Test Pit Log	DAHA-90-93-D-003-DO-0008		East of landfill					
Excavation Contractor:	tor: Excavator Make/Model:	e/Model:	Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	W x D (fe	et):		
East Coast	TAKEUCHI		9 /20 /95 0	0900/0915	3×3×3	ო ×			
Logged By:		nperature:	Screening Device	Screening Device (Type, make, model):	lel):	Mata			
M.Plumb/ K.Kutawski	wski sunny 70's	A	Foxboro Model	Foxboro Model 106 rib and bacharach Foul das Meter	acii roui gas		A 1. 4		
Depth (ft.)		Location of Landfill Waste	<b>.</b>		CPD()	02	Air Mo	Air Monitoring	8
	X				BB	BG	BG	BG	BG
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		X				KEY Y			
,	×.				کیا لیک	Silt Clay			
	X	×			·	-Sand	70		
,						-Gravel	ie vei		
,						-Copt	-Cobbles/Boulders	ilders	
						(Burn	(Burnt Material)	ial)	
4						-was	se/ iras	-	
Length (ft.)	East 1	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		West					
				Approx	Anroximate Test Pit I ocation:	oit I oca	tion.		
Soil Description		0-3 ft Light grey-brown silty SAND and fc. GRAVEL some COBBLES, some clay Color change to tan at 3 ft moist	COBBLES, some					$\uparrow$	Z
			•.	-	Fence	-		-	
•								_	_
Waste	None				Landfill				
Description						TP-82		$\neg$	
STWTPBZ.XLS							0/2	4:0108/	ž

		Client/Project/Contract No.:		Test Pit No.:					Γ
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	·-	TP-B3		Page	1 of	<b>~</b>	
jo P	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008		East of landfill					
<b>Excavation Contractor:</b>	or: Excavator Make/Model:	ake/Model:	Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	V x D (fec	et):		
East Coast	TAKEUCHI		9 /20 /95 0	0915/0930	4×2×2	x 2			
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature:	emperature:	Screening Devic Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	<b>lel):</b> ach Four Gas	Meter			
Depth		Location of Landfill Waste			FID	•	Air Monitoring	itoring	
(ft.)					(mdd)	02	E	H <sub>2</sub> S	8
		Toposole	-		BG (Background)	BB	BG	BG	BG
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						¥ X-Clay			
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3			,		[3.5		2	;	
-							J-Coppies/Boulders	SJeD	
4			-			(Burn	(Burnt Material)	â	
d trae l						SP AA	(C)     do		
	East 1	. 2		4 West					
the Description O. 4 th	1	aver of toneoil. brown roots		App	Approximate Test Pit Location:	Pit Loca	ation:		
	نو	Layer of topson, brown, rocks  Tan damp well graded SILT and angular to subangular fc. GRAVEL some cobbles, little clay, a boulder	ular fc. GRAVEL	воше	Fence			<b>Z</b>	
					Landfill				
Waste Description	None								
							TP-B3		

		Client/Project/Contract No.:		Test Pit No.:					
	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b> :	TP-84		Page	1 of	<b>~</b>	
	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
	Test Pit Log	DAHA-90-93-D-003-DO-0008		East of landfill					
Excavation Contractor:		Excavator Make/Model:	Date/Time Started/Finished	inished	Dimensions L $\times$ W $\times$ D (feet):	N x D (fee	et):		
East Coast	TAKEUCHI	-	9 /20 /95 0	0930/0945	4×2×3	e ×			
Logged By: M Plumb/ K Kutawski		Weather & Temperature: Sunny 70's	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	lei): ach Four Gas	Meter			
Depth		Location of Landfill Waste			FID	1	Air Monitoring	itoring	
(ft.)					(mdd)	02	LEL	H <sub>2</sub> S	8
		i vigori			BG	ВG	BG	BG	BG
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						-Gravel	vel		
m						وې- • ا	Cobbles/Boulders	lders	
						-Blac	-Black layer	=	
4						(Burn	(burnt material) -Waste/Trash	<u> </u>	
#) 	Lengtn (ft.) East 1	2 3		4 West					
	ı			App	Approximate Test Pit Location:	Pit Loca	ation:		
Soil Description	04 ft. 0.4- 2 ft.	Layer of topsoil- brown, roots Tan well graded clayey SILT and fc. GRAVEL some cobbles	selddoo em			·	1	<b>Z</b>	7
					Fence			<u> </u>	
					Landfill			-	
Waste Description	None								
	•						TP-84	1	
STWTPB4.XLS	S						/81/ôj	10/18/9512:41 PM	M. Figure

		Client/Project/Contract No.:		Test Pit No.:				
A A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;:</b>	TP-85		Page 1	of 1	
3	CORPORATION	Landfill Closure Site Investigation Site 1		Location:				
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008		East of landfill				
Excavation Contractor:	tor: Excavator Make/Model:	/Model:	Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	W x D (feet):		
East Coast	TAKEUCHI		9 /20 /95 0	0945/1000	4×1.5×3	5 x 3		
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature: Sunny 70's	perature:	Screening Devic Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	del): rach Four Gas	Meter		
Depth		Location of Landfill Waste			FID		Air Monitoring	g.
( <del>f</del> r.)					(mdd)	O <sub>2</sub> LEL	H <sub>2</sub> S	8
	o x o x	X X		- K-Topsoil	BG (Background)	98 BG	. BG	BG
			×	**	<u> </u>	KEY  X\subset   Class		
2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				- <b>]</b> [	-Silt		
		X X X X X X X X X X X X X X X X X X X		<b></b>	لنتا د	Sand -Sand		
					<u></u>	-Gravel		
e .	<b>4</b>					-Cobbles/Boulders	Boulders	
						(Burnt Material)	ei iterial) rash	
Length (ft.)	East 1	- S		4 West				
Soil Description	O 2 th layer of tones	l aver of topsoil, brown roots		Арр	Approximate Test Pit Location:	Pit Location	-   <sub>E</sub>	
	0.2- 1.5ft.Tan well graded loose boulders in walls of pit	0.2- 1.5ft.Tan well graded loose clayey SILT and fc. GRAVEL some cobbles boulders in walls of pit	/EL some cobbles		Fence	· _		<b>Z</b>
								L
Waste Description	None				Landfill			
							 TP-B5	വ
							06307067	844

			Client/Project/Contract No.:		Test Pit No.:					
A	ANEPTEK	<b>~</b>	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b> :	TP-B6		Page	Page 1 of	<del>-</del>	
<b>S</b>	CORPORATION	z	Landfill Closure Site Investigation Site 1		Location:					
Tes	<b>Test Pit Log</b>		DAHA-90-93-D-003-DO-0008		East of landfill					
Excavation Contractor:		Excavator Make/Model:	/Model:	Date/Time Started/Finished		Dimensions L x W x D (feet):	N x D (fee	et):		
East Coast	<b>1</b>	TAKEUCHI		9 /20 /95 1	1000/1015	7 × 1.5 × 2	5 x 2			
Logged By:		Weather & Temperature:	perature:	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	lel): ach Four Gas	Meter			
Denth			Location of Landfill Waste			FID	1	Air Monitoring	itoring	
(ft.)						(mdd)	02	LEL	H <sub>2</sub> S	co
			-	_		BG (Background)	BG	BG	BG	BG
			T108701							
	×	×	·		-		KEX			
~	×		× · · × · · · · · · · · · · · · · · · ·	) )			× Clay			
							-Sand	70		
							-Gravel	vel.		
)							දී ()	-Cobbles/Boulders	Iders	
 							-Buar	-black layer (Burnt Material)	al)	
			_				-was	-waste/Irash		
Length (ft.)	East	~ ~	<del></del> 4		. West					
Soil Description	#	aver of topso	l aver of topsoil- brown roots		Appr	Approximate Test Pit Location:	Pit Loca	ation:		
	ئو	Brown to tan damp we boulders in walls of pit	Brown to tan damp well graded clayey SILT and fc. GRAVEL, few boulders boulders in walls of pit	.c. GRAVEL, few	boulders	Fence	. <u>.</u>		$+$ $\top$	<b>Z</b>
						Landfill				
Waste Description	1.5 ft. bgs-		Red and yellow trash barrel (crushed)		<u>, , , , , , , , , , , , , , , , , , , </u>					
			1						TP-B6	•
STANTIBLE VIE								101	10/18/951:22	ΜH

		Client/Project/Contract No.:		Test Pit No.:	,			
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	>:	TP-B7	-	Page 1	of 1	
8	CORPORATION	Landfill Closure Site Investigation Site 1		Location:				
Te	Test Pit Log	DAHA-90-93-D-003-DO-0008		East of landfill				
<b>Excavation Contractor:</b>	or: Excavator Make/Model:	/Model:	Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	/ x D (feet):		
East Coast	TAKEUCHI		9 /20 /95 1	1015/1045	4 x 1.5 x 3	. x 3		
Logged By:		perature:	Screening Devic	Screening Device (Type, make, model):	lel):			
M.Plumb/ K.Kutawski	vski sunny /U's		Foxboro Model 108 FID	IVS FID and Bachar	and bacharach Four Gas Meter			
Depth (ft.)		Location of Landfill Waste	ø		OH (mdd)	Air M O <sub>2</sub> LEL	Air Monitoring	ing S
	×	×	×	0	BG (Background)		<del> </del>	BBG E
,		X	Š.					
	• × •		×		KEY	<b>≻</b>		
						Clay -Clay		
7	* * * * * * * * * * * * * * * * * * *		\ \ \			-Sand		
			• ×			-Gravel		
3	●大学芸術の大学芸術の大学芸術の大学芸術の大学芸術の大学芸術の大学芸術の大学芸術の	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			-Cobbles/Boulders	oulders	
						-Black layer (Burnt Material)	erial)	
4						-Waste/Trash	sh	
Lenath		— — — —	_	<del></del>				
(#.)	East 1	. 2	- m	4 West				
Soil Description	0-1 ft. Color change:	Color change: Dark brown to brown SILT and fc. GRAVEL some clay. few	GRAVEL some c		Approximate Test Pit Location:	Pit Locatio	::	_
			few cobbles					Z
					Fence			<u></u>
Waste Description	None				Landfill			
								B7

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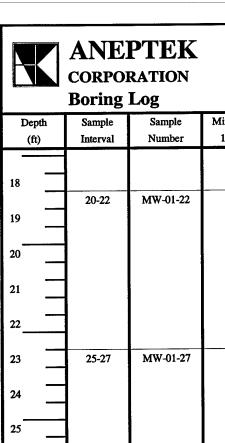
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		Client/Project/Contract No .		Test Pit No :					
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.		TP-B8		Page	~	of 1	
<u>8</u>	CORPORATION	Landfill Closure Site Investigation Site 1	Site 1	Location:	_				
Tex	Test Pit Log	DAHA-90-93-D-003-DO-0008		East of landfill					
Excavation Contractor:	tor: Excavator Make/Model:	e/Model:	Date/Time Started/Finished	inished	Dimensions L $\times$ W $\times$ D (feet):	V x D (fe	et):		
East Coast	TAKEUCHI		9 /20 /95 1	1045/1100	4×1.5×3	5 x 3			
Logged By: M Phimb/ K Kirtawski	Weather & Temperature:	nperature:	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	Iel): ach Four Gas	Meter			
Depth Depth		Location of Landfill Waste			FID		Air Mo	Air Monitoring	_
(£.)			,		(mdd)		TET	H <sub>2</sub> S	1
		liosoji	-		BG (Background)	BG	BG	BG	BG
-	•				2	}			
	× •	×				Clay			
2	• × ×	×	• ×			-Silt			
				•		-Sand			
, m						Gravel Cobble	-Gravel -Cobbles/Boulders	fers	
		-				-Black layer	-Black layer	-	
4				•		-Waste/Trash	Materia /Trash	<u>-</u>	
•		_ _ _ _							
Length (ft.)	East 1	. 2	<sub></sub>	4 West					
	1			App	Approximate Test Pit Location:	Pit Loc	ation:		
Soil Description	0-0.6 ft. Brown to ligh 0.06-3 ft Tan SILT and	Brown to light brown topsoil with a fair amount of roots Tan SILT and fc. GRAVEL some to little clay, few cobbles and boulders	r roots v cobbles and boo	ulders	400000000000000000000000000000000000000				Z M
		-	-	1	Fence	ï		-	
					Landfill				
Waste Description	None								
						TP-B8		]	
STWTPB8.XLS							/ôl	10/19/958;15 AN	AM S

		Client/Project/Contract No.:		Test Pit No.:					
A	ANEPTEK	ANGR/Stewart ANG Newburgh, N.Y.	<b>&gt;</b>	TP-898		Page	3 1 of	<del></del>	
	CORPORATION	Landfill Closure Site Investigation Site 1		Location:					
Tes	Test Pit Log	DAHA-90-93-D-003-DO-0008		East of landfill					
Excavation Contractor:	or: Excavator Make/Model:	/Model:	Date/Time Started/Finished	inished	Dimensions L x W x D (feet):	N x D (fe	et):		
East Coast	TAKEUCHI		9 /20 /95 1	1125/1140	5 x 1.5 x 3	5 x 3			
Logged By: M.Plumb/ K.Kutawski	Weather & Temperature:	perature:	Screening Device Foxboro Model	Screening Device (Type, make, model): Foxboro Model 108 FID and Bacharach Four Gas Meter	del): rach Four Gas	Meter			
Depth		Location of Landfill Waste	ej		FID		Air Monitoring	itoring	
( <del>f.</del> .)					(mdd)	02	LEL	H <sub>2</sub> S	ပ္ပ
	-				BG (Background)	BG	BG	BG	BG
-									
						KEY			
2						Ax -Clay	<u>≻</u>		
						Sand -	Þu		
<sub>6</sub>						-Gravel	avel	:	
							-Cobbles/Boulders  -Black layer	ulders	
4						(Bur	(Burnt Material) -Waste/Trash	rial) h	
Length (ft.)	East 2	_ 4	_ 9	8 West					
Soil Description	1-3 ft. Brown, well gr	Brown, well graded SILT and fc. GRAVEL, few cobbles (fill)	obbles (fill)	Арр	Approximate Test Pit Location:	Pit Loc	ation:	-	
					Ĺ		•		<b>Z</b>
					rence				
Waste Description	Paper (coffee lable)				Landfill				
,	,			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		TP-898	m	70	
							1/1/1	B/051-5	DKA

## APPENDIX D BORING LOGS

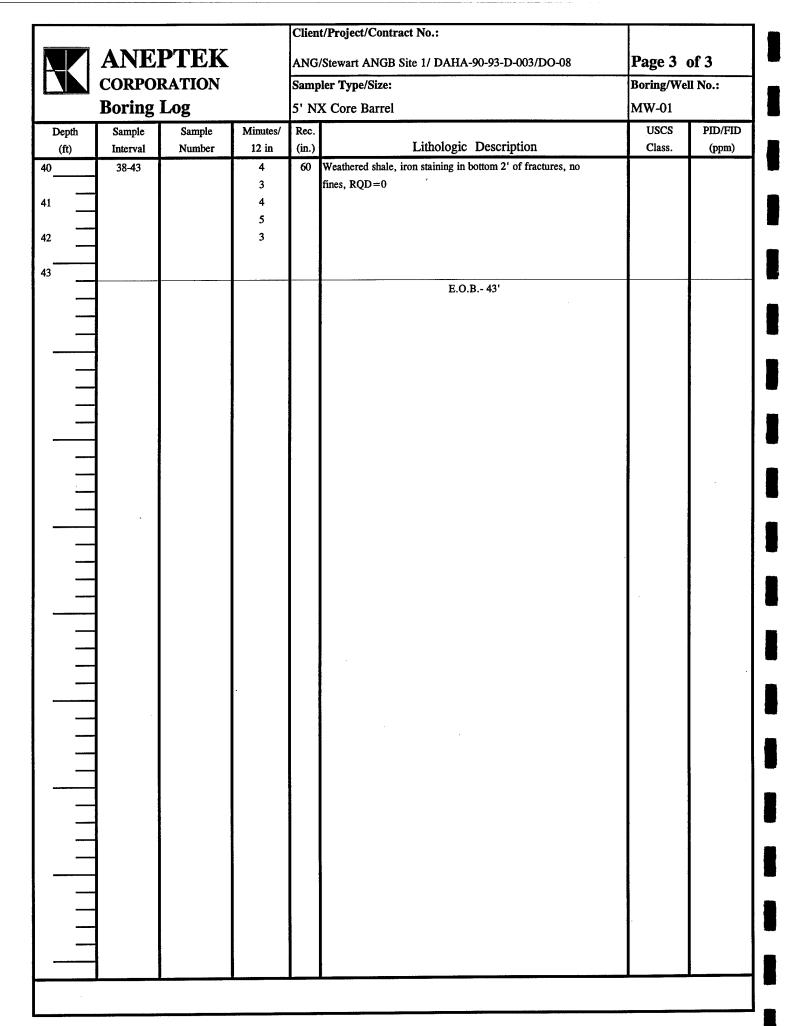
	_			Clien	t/Project/Contr	act No.:			
	ANE	PTEK		ANG	Stewart ANGB	Site 1/ DAHA-90-9	3-D-003/DO-08	Page 1 o	f 3
	CORPO	RATION		Samp	oler Type/Size:			Boring/Wel	1 No.:
	Boring	Log		2' Sp	olit Spoon/ 5' N	NX Core Barrel		MW-01	
Drilling Cor			Drilling Ri	g Mal	ke/Model:		Date/Time Started	Date/Time	Finished
East Coast			CME Tra	ek Rie	<b>y</b>		10/16/95 952	10/20/95	930
Logged By:	Thomas		Drilling M				Screening Device (Type		
			HSA / NX				HNU PID 10.2 eV		
J. Donovan  Location (su			Ground. E			Bedrock Depth:	Water Table Depth:	Borehole Di	ameter:
546067.50	•		436.5		43.0 ft.	31.6 ft.	NA	8"(0-16')/4"(1	
Depth	Sample	Sample	Blows/	Rec.	15.0 10.	51.0 10.		USCS	FID
(ft)	Interval (ft)	Number	6-in.	(in.)		Lithologic Des	scription	Class.	(ppm)
	0-2		4,10	12	0-2" Brown topso			GM	f
1			15,33		2-10" Grey SILT				
					Not enough recov	ery for a sample			İ
2 _		7 677 04 04	7.05	10	C STI TO	-11		- N/I	
l <u> </u>	2-4	MW-01-04	7,25	13	Grey SILT, trace	clay, trace gravel		ML	f
3			34,41						
								1	
4									f
	4-6	MW-01-06	25,39	24	Grey SILT, some	fc. gravel, trace cla	у	ML	I
5			45,50/4"						
7									
6 —	21.00	10 Grey SILT, little clay, trace fc. gravel			M	f			
6 6-8 7 8-10 MW-01-10			21,28	10				ML	1
6-8 2 8 8-10 MW-01-10			30,48		Grey SILT, little clay, trace fc. gravel  Grey SILT, little clay, trace fc. gravel				
8 8-10 MW-01-10 1									
*	16,23	22 Grey SILT, little clay, trace fc. gravel			ML	f			
ا <sub>م</sub> –	9-10	MIW-01-10	32,41	22				WE	•
<sup>9</sup>			32,41						
10 —								i	
10	10-11.2		19,35	10 Grey SILT, little clay, trace fc. gravel  Refusal at 11.2'			ML	f	
11 —	10-11.2		52/2"	Refusal at 11.2'			1		
''				Refusal at 11.2' Roller Bit to 13'					
12				and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t				1	
					i				]
13									
<del></del>	13-15		10, 22	15	Grey SILT, little	clay, trace fc. grave	1	ML	f
14 —			33, 31			-			
15									
			, <u>.</u>		Roller Bit to 16'				
16			<u></u>	<u> </u>					
			Min./ ft			16' with Series 6 Bit			
17	16-18	MW-01-18	5	24"	Grey very stiff T	ILL consisting mainly	of CLAY and fc.	CL	f
			5		gravel, some silt				
	Penetratio	n Resistance			Proportions				
	ar Soils	Cohesiv			: 0 - 10%	Notes and Commen			
Blows/ft	Density	Blows/ft	Density	-	10 - 20%	Lost 30 gallons of wa	ater during drilling.		
<4	V. Loose	<2	V. Soft Soft	1	: 20 - 35% 35 - 50%				
4 - 10 10 - 30	Loose m. Dense	2 - 4 4 - 8	m. Stiff		33 - 30% Water Content	-			
30 - 50	Dense	8 - 15	Stiff	<del></del>	D - Dry	1.			
>50	V. Dense	15 - 30	V. Stiff		M - Moist				
		>50	Hard		W - Wet				
L CHEWO1	.XLS 10/15/96								



Client/Project/Contract No.:		
ANG/Stewart ANGB Site 1/ DAHA-90-93-D003/DO-08	Page 2	of 3
Sampler Type/Size:	Boring/We	ll No.:
5' NX Core Barrel	<b>MW</b> -01	
Rec.	USCS	PID/FID

	Boring	Log		5' N	K Core Barrel	MW-01	
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID
(ft)	Interval	Number	12 in	(in.)	Lithologic Description	Class.	(ppm)
18	20-22	MW-01-22	3 4 4 5	54	Grey very stiff TILL consisting mainly of CLAY and fc. gravel, some silt	CL	f
21	25-27	MW-01-27	3 5		Grey very stiff TILL consisting mainly of CLAY and fc. gravel, some silt	CL	f
24 25 26			4 4 4				
28	30-31.6	MW-01-31.6	3 4 4 7	60	28'-31.6' Grey very stiff TILL consisting mainly of CLAY and fc. gravel, some silt 31.6'-33' Dark grey weathered shale, RQD= 0	. CL	f
31	33-38		7	60	Dark grey fractured shale, no iron staining, no fines		
35	33-36		3 4 5 3		RQD=0	<u>}</u>	
37							
Notes and C	ommonts:						

Notes and Comments:





Client/Project/Contract No.:

ANG/Stewart ANGB Site 1/ DAHA-90-93-D-003/DO-08

Page 1 of 4

Sampler Type/Size:

Boring/Well No.:

2' Split Spoon/ 5' NX Core Barrel

MW-04

	00		•		- J K					
	Boring :	Log		2' Sp1	lit Spoon/ 5' N	X Core Barrel		MW-04		
Drilling Co			Drilling Ri	g Mak	e/Model:		Date/Time Started	Date/Time	Finished	
East Coast	Thomas		CME Trac	ck Rig			10/24/95 1317	11/16/95	1630	
Logged By:	22001140		Drilling M				Screening Device (Type, n			
	i/ M. Plumb		HSA / NX	Core	Barrel		Foxboro 108 FID /Bach	arach 4 Gas		
	rvey coord):		Ground. E		Total Depth:	Bedrock Depth:	Water Table Depth:	Borehole Di	ameter:	
=	N 568377.8		434.20 ft		72.5 ft	45-46 ft	NA	8.25"(0-9')/4'	'(9-72.5)	
Depth	Sample	Sample	Blows/	Rec.		1		USCS	FID	
(ft)	Interval (ft)	Number	6-in.	(in.)		Lithologic De	escription	Class.	(ppm)	
1	0-2		8, 5 7, 16	15.5	Color change to g	rown stiff clayey SILT, little fm. gravel, trace f. sand  Molor change to grey in bottom 1/2"  olled to 1/4" when water is added				
3	2-4		17, 23 35, 30	20	Color change to g	ey SILT, little f. gravel grey in bottom 3" n water is added, stiffe	-	ML	f	
5	4-6		7, 16 22, 22	12			n. gravel, little fm. sand	ML	f	
78	6-8		19, 19 20, 18	16	Roll to 1/8" when	n water is added	n. gravel, little fm. sand	ML	f	
9	-		Min/ ft		Roller Bit to 9'  Begin Coring at 9	9' with Step Bit				
11	9-12.5		5 3.5 3.5 4	30	sand, 2 cobbles		ne fc. gravel, trace f.	CL	f	
13	12.5-17.5			60	sand, 1 cobble (		me fc. gravel, trace f.	CL	f	
15										
17										
	Penetration		sive Soils	Trace	Proportions 0 - 10%	Notes and Commen	<b>'c</b> •			
	lar Soils	Blows/ft	Density	<b>-</b> l	10 - 10%	110tes and Commen				
Blows/ft	Density	Blows/ft	V Soft		20 - 20%	1				

V. Soft Some: 20 - 35% <4 V. Loose <2 2 - 4 Soft And: 35 - 50% 4 - 10 Loose Water Content 10 - 30 4.-8 m. Stiff m. Dense 8 - 15 Stiff D - Dry 30 - 50 Dense M - Moist >50 V. Dense 15 - 30 V. Stiff Hard W - Wet >50



Client/Project/Contract No.:

ANG/Stewart ANGB Site 1/ DAHA-90-93-D-003/DO-08

Page 2 of 4

Sampler Type/Size:

Boring/Well No.:

2" Split Spoon/ 5' NX Core Barrel

MW-04

	Boring	Log		2" Sp	lit Spoon/ 5' NX Core Barrel	MW-04		
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID	
(ft)	Interval	Number	12 in	(in.)	Lithologic Description	Class.	(ppm)	
	17.5-22.5		3	42	Grey very stiff CLAY, some silt, some fc. gravel, trace f.	CL	f	
18			3		sand, 1 cobbles (lodgement till)			
			3		Rolls to 1/32" when water is added			
19			3	ĺ				
			5					
20								
21 —								
	·			1				
22	1				·			
	1			l				
23	22.5-27.5		2	56.5	Grey very stiff CLAY, some silt, some fc. gravel, trace f.	CL	f	
			2		sand, 2 cobbles (lodgement till)			
24			1		Rolls to 1/32" when water is added			
			3.5					
25			3.5					
26								
27								
28	27.5-32.5		1.5	33	Grey very stiff CLAY, some silt, some fc. gravel, trace f.	CL	f	
			2	į	sand, 2 cobbles (lodgement till)			
29			4		Rolls to 1/32" when water is added			
			4		•			
30	4		3					
31								
	-							
32	-				Changed to Series 6 Bit at 32.5'			
33	32.5-34			11	Grey very stiff CLAY, some silt, some fc. gravel, trace f.	CL	f	
- J	32.3-34			''.	sand, 1 cobble, washed stones, rolls to 1/32" when water is		l •	
34	1				added (lodgement till)			
	34-36		4	5	Eight medium size pieces of fined grained grey gravel			
35	1		5					
	1	•	1					
36	1			l				
	36-40		3		Grey very stiff TILL consisting mainly of CLAY, some silt,	CL	f	
37	1		3		some fc. gravel, trace f. sand, 2 cobbles			
	1		4		Rolls to 1/32" when water is added			
38	1		2.5					
	1	1						
39	1							
Notes and Co		I	<u> </u>	I			<u>.                                    </u>	
NATES ONA 1 '4	mmante.							

Notes and Comments:



ANG/Stewart ANGB Site 1/ DAHA-90-93-D-0003/DO-04

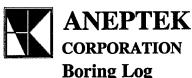
Sampler Type/Size:

Client/Project/Contract No.:

Boring/Well No.:

Page 3 of 4

	Boring	Log		5' NX	Core Barrel	MW-04	
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID
(ft)	Interval	Number	12 in	(in.)	Lithologic Description	Class.	(ppm)
40							
					Roller Bit to 41'		
41	41-43.5		7	5	1" Grey very stiff CLAY, some silt, some fc. gravel, trace f.	CL	
42	1		8	l	sand, 2 cobbles (lodgement till)		
	]		6"/4.5		Rolls to 1/32" when water is added		1
43				İ	Gravel jammed in barrel		
—					Roller Bit to 45'		
44	1		Ì		Roller Dit to 43		
45	İ						
	45-47		7.5	18	Grey weathered shale, 45° bedding planes, fractures along		
46			8		bedding planes, iron staining in fractures, no secondary		
					mineralization, RQD=0		
47	47-52		11	<u> </u>	Grey weathered shale, 45° bedding planes, fractures along		
48	47-32		9		bedding planes, iron staining in fractures, no secondary		
	1		10		mineralization, RQD=0		
49	1		9	Ì			
		l	8				
50	<u> </u>						
51					i		
52							
	52-57	1		50	52-56' Grey weathered fractured shale, bedding not evident,		
53	1				iron staining in fractures, pieces 5-15 mm in size, no secondary mineralization, RQD=0		
54	-				56-57' Fractures along bedding planes can be identified		
· <u> </u>	1						
55	1			l			
				i			
56	1						
57 —	1		1				
	57-62		4	44	57'-61' Grey weathered shale, 45° bedding planes, fractures		
58	1		7		along bedding planes, iron staining in fractures, some vertical		
_	]	-	6		fractures, no secondary mineralization		
59	4		8	1	61-62' No iron staining between fractures		
60	1	1	10		RQD = 0		
<u> </u>	1		Į.	Ī			
61	1			1	1		
	]						
62							
	4						1
63	I		1	<u> </u>			<u>.                                    </u>



Client/Project/Contract No.:

ANG/Stewart ANGB Site 1/ DAHA-90-93-D-0003/DO-04

Sampler Type/Size:

5' NX Core Barrel

MW-04

(ft) Interval Number 12 in (in.) Lithologic Description Class. (pp. 63 62-67 12 12 12 12 12 12 12 12 13 14 14 14 15 15 14 14 15 15 16 14 15 15 16 14 15 15 16 14 15 15 16 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16		Boring	Log		5' NX	Core Barrel	MW-04	
(ft) Interval Number 12 in (in.) Lithologic Description Class. (pp)  63	Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID
12		Interval	Number	12 in	(in.)	Lithologic Description	Class.	(ppm)
64	63	62-67		12	44	Dark grey highly weathered shale, iron staining in fractures,		
8 5 RQD= 0  66				12				
5	64	]		7				
66			!			RQD = 0		
67	65	l		5				
67								
68	66	Į.						
68		ļ						
68	67 —					D. I		
5 14 5 70 71 72 Roller Bit to 72.5' 73 E.O.B 72.5 ft.		67-72			24			
69	68					RQD= 11%		
70								
70	——————————————————————————————————————							
71	70			,				
72 Roller Bit to 72.5'  73 E.O.B 72.5 ft.	, –							
72 Roller Bit to 72.5'  73 E.O.B 72.5 ft.	71			l				
Roller Bit to 72.5'  E.O.B 72.5 ft.								
Roller Bit to 72.5'  E.O.B 72.5 ft.	72							
74						Roller Bit to 72.5'		
	73					E.O.B 72.5 ft.		
				1				
	74			l				
			:	1		·		,
	75							
			<i>'</i>					
				l				
	-							
		1						
		]						i
		1						
		Į	l		1			]
		<b>.</b>			1			
		]						
		1						
		1						
		ł						
			I		ļ			<u> </u>



Client/Project/Contract No.:

ANG/Stewart ANGB Site 1/ DAHA-90-93-D-003/DO-08

Page 1 of 2

Sampler Type/Size:

Boring/Well No.:

2' Split Spoon/ 5' NX Core Barrel

MW-05

	0014 01		•	F	<b>J</b> I			ŀ	i			
	Boring :	Log		2' Sp	lit Spoon/ 5' N	X Core Barrel		İ	MW-05			
Drilling Con			Drilling R				Date/Time Starte	:d	Date/Time Fi	nished		
East Coast	Thomas		CME Tra	ck Ric	7		10/26/95 162	25	10/30/95	1632		
Logged By:	1 HOHIAS		Drilling M						e, make, model):			
K.Kutawski	i/ M. Plumb	•	HSA / NX	K Core	e Barrel		Photovac FID /E	Bacharac	h 4 Gas			
	rvey coord):		Ground. E	Cl:	Total Depth:	Bedrock Depth:	Water Table Dep	th:	Borehole Dia	meter:		
-	V 569141.9		349.9 ft.		36.5 ft.	24.5 ft	NA		8.25"(0-24.5')/4"(24.5-36.5')			
Depth	Sample	Sample	Blows/	Rec.					USCS	FID		
(ft)	Interval (ft)	Number	6-in.	(in.)	Lithologic Description Class. (pp.							
-	0-2		4, 2	18	0-6"Brown moist	soft clayey SILT, little	e f. gravel, trace m.		ML	f		
1 —			5, 8		gravel, trace f. sa	and						
_						nge to tan, molded iron	n and manganese					
	,				staining visible -	_	· ·		l I			
	2-4		11, 11	24		y SILT, some f. grave	(nlatev to subangular	r).	ML	f		
	2-7		11, 12	<b>-</b>	-	trace f. sand, molded	· (Praire) so susuanguan	-,,	1			
3			11, 12		nace III. graver,	nace 1. saint, monteu			1			
. —									1			
4				<b>.</b>	m	arr m	1 (-1-44111	>	ML	f		
	4-6		5, 10	4		y SILT, some f. grave	i (piatey to subanugiai	Γ),	ML	1		
5			9, 8	1	trace f. sand, mo	lded		i l				
					·				1 1			
6				<u></u>								
	6-8		5, 10	9	Tan v. stiff satur	ated clayey SILT, som	e m. gravel, trace fr	m.	MH	f		
7			9, 8		sand with 2" of f	ractured platey rock w	ith iron staining		ŧ l			
	1		ļ									
8	1		ł		<u></u>				1			
	8-10		19, 14	18	Tan v. stiff dry c	layey SILT, some f. g	ravel (some platey),		ML	f		
9 —			20, 21			race f. sand (lodgemer			1			
_			,			, 5	•		1			
10 —									ł l			
10	10-12		19, 14	18	Tan v. stiff wet o	elayey SILT, some f.	rravel (some platev)		ML	f		
	10-12		20, 21	10		race f. sand (lodgemen			'''-	•		
			20, 21		_		u un)					
					2 layer of grey	fine grained m. gravel			ļ l			
12				<del> </del>			.1		<u> </u>			
	12-14		5, 12	11		clayey SILT, some f. g	ravei, trace m. gravei	ι,	ML	f		
13			33, 37		trace fm. grave	l (lodgement till)			1 1			
14												
	14-16		5, 13	13	Grey v. stiff CL	AY and SILT, trace f.	gravel, trace f. sand		CL	f		
15		•	16, 24		Rolls to 1/16" w	hen water is added (loc	lgement till)		1			
				1	Very hard, can b	e broken by hand with	some force		1			
16	1								<u>                                     </u>			
	16-18		5, 13	12	Grey v. stiff CL.	AY and SILT, trace f.	gravel, trace f. sand		CL	f		
17	1	•	16, 24	1	1 -	hen water is added (loc			j i			
	1			1	l .	e broken by hand with	-	ļ	]			
	<u>i</u>			1	_				<u> </u>			
	Penetration		ive Soils	Tenan	Proportions : 0 - 10%	Notes and Commen	ts•					
	ar Soils	Blows/ft	Density	_	: 0 - 10% : 10 - 20%	110tes and Commen						
Blows/ft <4	V. Loose	Slows/ft	V. Soft	_	: 10 - 20%		•					
4 - 10	Loose	2 - 4	Soft	1	35 - 50%							
10 - 30	m Dense	4 - 8	m Stiff		Water Content	1						

m. Dense

V. Dense

Dense

4 - 8

8 - 15

15 - 30

>50

m. Stiff

V. Stiff

Stiff

Hard

Water Content

D - Dry

M - Moist

W - Wet

10 - 30

30 - 50

>50

	ANE	PTEI	<b>K</b>	l	t/Project/Contract No.: /Stewart ANGB Site 1/ DAHA-90-93-D-003/DO-08	Page 2 o	f 2			
T	CORPO	RATION	J	Sampler Type/Size: Boring/Well No.:						
	Boring			2" St	plit Spoon/ 5' NX Core Barrel	MW-05				
Depth	Sample	Sample	Blows/	Rec.	1	USCS	PID/FID			
(ft)	Interval	Number	6 in	(in.)	Lithologic Description	Class.	(ppm)			
.8										
	18-20		13, 20	18	Grey v. stiff CLAY and SILT, little fm. gravel, trace f. sand	CL	f			
19			22, 36		Rolls to 1/16" when water is added (lodgement till)					
					Very hard, can be broken by hand with some force					
20	20.22		0.0	8	Grey v. stiff CLAY and SILT, and fm. GRAVEL, trace f. sand	CL	f			
	20-22		9, 8 18, 50/3"	ů	Rolls to 1/16" when water is added (lodgement till)		1			
			10, 50/5		Very hard, can be broken by hand with some force					
					Refusal at 21'3", platey pieces of rock in nose					
					Roller Bit to 24.5'					
.3										
_										
4 _										
				<b>.</b>						
25			Min/ft.	40	Begin Coring at 24.5' with Step Bit		f			
	24.5-29.5		5	48	Weathered shale, iron staining in fractures, white calcite veins in rock, bedding planes at 45° angles, changes in fracture					
			6 7		direction noted from 45° angle to vertical then back to 45°					
27			9		angle					
<i>''</i> ——			9		RQD= 0					
28										
-	]									
29										
30	29.5-34.5		5	54	Weathered shale, iron staining in fractures, white calcite veins					
_			5		in rock, no consistant bedding can be seen, fractures vary					
<sup>31</sup> —			7 5		horizontal to vertical  RQD= 0					
32			,		<u>ν</u> Αν− 0					
	1									
·										
34						. [				
35					Roller Bit to 36.5'					
	I			I		1				

E.O.B.- 36.5'

Notes and Comments:

38

39



ANG/Stewart ANGB Site 1/ DAHA-90-93-D-003/DO-08

Sampler Type/Size:

2' Split Spoon/ 5' NX Core Barrel

Client/Project/Contract No.:

Page 1 of 2
Boring/Well No.:

MW-07

Drilling Contractor:

East Coast Thomas

CME Track Rig

Date/Time Started

Date/Time Finished

11/8/95 1100

11/9/95 930

Logged By:

Drilling Method:

Screening Device (Type, make, model):

M. Plumb/J. Donovan HSA / NX Core Barrel Photovac FID /Bacharach 4 Gas

 Location (survey coord):
 Ground. El:
 Total Depth:
 Bedrock Depth:
 Water Table Depth:
 Borehole Diameter:

 545159.95N 568999.12E
 360.1 ft.
 30.5 ft.
 16.0 ft
 NA
 8.25"(0-16")/4"(16-30.5")

J7J1J7.JJ1			200.1	_		*****	
Depth	Sample	Sample	Blows/	Rec.		USCS	FID
(ft)	Interval (ft)	Number	6-in.	(in.)	Lithologic Description	Class.	(ppm)
	0-2		1,3	10	0-2" Dark brown topsoil	ML	f
	0-2		6,5		2-8" Light brown stiff clayey SILT, little gravel, trace f. sand		
1			0,5		2-6 Light blown sun clayey Sill 1, hade graver, trace 1. said		
2							
	2-4		9,5	16	0-16" Light brown stiff clayey SILT, some gravel, trace f. sand	ML	f
3			6,9		16-20" Same material only wet		
			,			1 !	
4			<u> </u>				
	4-6		2,6	18	Light brown stiff slighty moist clayey SILT, slatey gravel	ML	f
5			6,6				
l °			6,7	20	Light brown v. stiff slighty moist clayey SILT, little gravel, trace f.	ML	f
	6-8			20		WIL	
7			11,9		sand, molded		
8							
	8-10		18,11	16	0-4" Light brown, v. stiff wet silty CLAY	ML	f
9			11,13		4-10" Gravel layer		
					10-16" Light brown v. stiff dry silty CLAY		
10	1						
	10-12		3,12	19	0-8" Light brown wet silty CLAY, little gravel, little f. sand	ML	f
11 -			22,24		(lodgement till)	1	
l	ł				8"-19" Color becomes slightly more grey		
I., —	1				15"-19" Same material, only dry		
<sup>12</sup> —	10.14		14, 14	22	Light brown v. stiff dry silty CLAY, little gravel (lodgement till)	ML	f
	12-14		•	22	Light brown v. suit dry sury CLAT, hade graver (reagement tin)	14112	•
13			21, 28		1		
_		1					
<sup>14</sup> —							
l	14-16		5,18	19	Light brown hard silty CLAY, little gravel, top 4" wet, traces of		
15		i	43,50	l	iron staining on gravel (lodgement till)	ML	f
	1			1	i	1	
16	1			1			
	16-16.4		50/4"	4	0-2" Light brown hard silty CLAY, little gravel (lodgement till)	ML	f
17 —	1			Į.	2-4" Grey platey gravel, no soil		
l'' —	1			1			
	<u> </u>					1	

Penetration Resistance **Proportions** Cohesive Soils Trace: 0 - 10% Granular Soils Blows/ft Density Blows/ft Density Little: 10 - 20% V. Soft Some: 20 - 35% <4 V. Loose <2 2 - 4 Soft And: 35 - 50% 4 - 10 Loose m. Stiff Water Content 10 - 30 m. Dense 4 - 8 Stiff D - Dry 8 - 15 30 - 50 Dense V. Dense 15 - 30 V. Stiff M - Moist > 50

>50

Hard

W - Wet

Notes and Comments:

LCMW07.XLS 10/15/96



ANG/Stewart ANGB Site 1/ DAHA-90-93-D-003/DO-08

Boring/Well No.: Sampler Type/Size:

2" Split Spoon/ 5' NX Core Barrel

Client/Project/Contract No.:

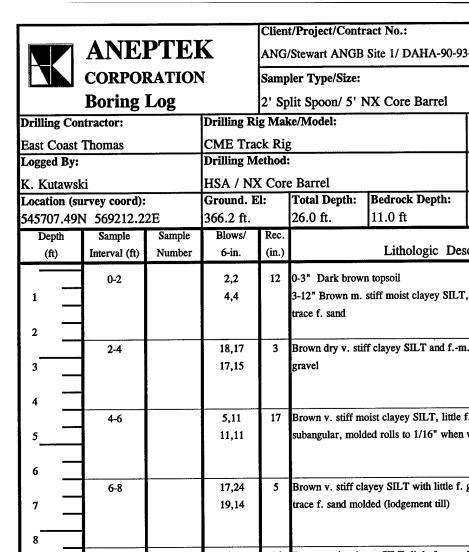
MW-07

Page 2 of 2

	Boring	Log		2" SI	olit Spoon/ 5' NX Core Barrel	MW-07		
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID	
(ft)	Interval	Number	ft.	(in.)	Lithologic Description	Class.	(ppm)	
18	.16-21		5		Begin Coring at 16' with Step Bit  Fractured dark grey shale, calcite veins in top 5"	:	f	
19	:		7		No clear fracture pattern			
			7		RQD= 0			
20			7 6					
21								
	21-26		2		Fractured dark grey shale		f	
22			3		No clear fracture pattern			
			5 5		RQD= 0			
23			7					
24								
25								
26								
	26-30.5		5	24	Dark grey weathered shale, multiple fractures in no clear pattern,		f	
27			5		calcite veins in bottom 3"			
28 —	,		4 4		RQD= 0			
<sup>20</sup> —			4/6"					
29								
30 —					·			
31					E.O.B 30.5 ft.			
32								
33								
34								
		ĺ						
35								
36								
37		1						
38								
39								
			1	•				
Notes and Co				-				

Notes and Comments:

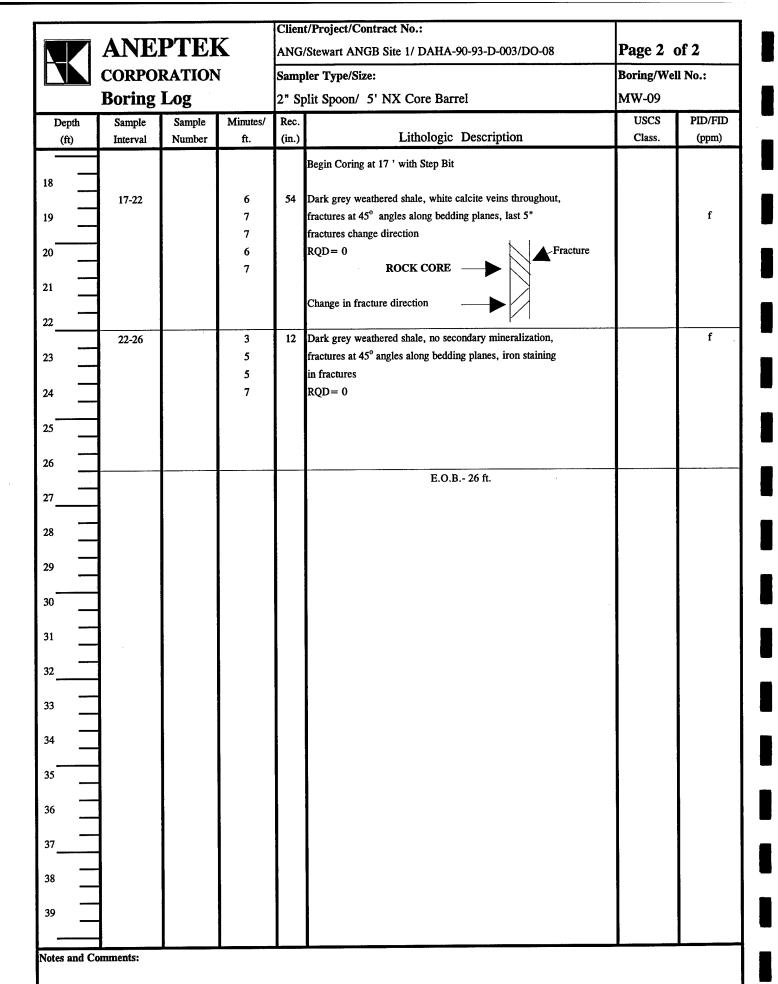
Lost approximately 43 gallons of water during drilling.



Page 1 of 2 ANG/Stewart ANGB Site 1/ DAHA-90-93-D-003/DO-08 Boring/Well No.: MW-09 Date/Time Started Date/Time Finished 11/6/95 11/8/95 700 1500 Screening Device (Type, make, model): Photovac FID /Bacharach 4 Gas Water Table Depth: **Borehole Diameter:** 

545707.49	N 569212.2	2E	366.2 ft.		26.0 ft.	11.0 ft	NA	8.25"(0-17')	/4"(17-26)
Depth	Sample	Sample	Blows/	Rec.				USCS	FID
(ft)	Interval (ft)	Number	6-in.	(in.)		Lithologie	Description	Class.	(ppm)
1 <u> </u>	0-2		2,2 4,4	12	0-3" Dark brown 3-12" Brown m. trace f. sand	_	y SILT, little fm. gravel,	ML	f
3	2-4		18,17 17,15	3	Brown dry v. stif gravel	ff clayey SILT a	nd fm. angular to subang	ular ML	f
5	4-6		5,11 11,11	17			, little f. platey, angular an	d ML	f
7	6-8		17,24 19,14	5	Brown v. stiff cla trace f. sand mol		ittle f. gravel, trace m. gra till)	vel, ML	f
9	8-10		6,4 8,6	16	Brown moist clay trace f. sand, no		gravel, trace m. gravel, (lodgement till)	ML	f
11	10-12		6,9 13,22	19	gravel, trace f. s (lodgement till)	and, rolls to 1/3	SILT, little f. gravel, trace 2" when water is added atey rock, trace fines	m. ML	f
13	12-14		17,14 26,16	16	I .		latey rock, breaks in hand, fines, water inside		f
15	14-14.8		22 50/3"	3	Dark grey weath scratches with ki Roller Bit to 17'	-	latey rock, breaks in hand, fines		
16									
	Penetration	Decictance	<u> </u>	1	Proportions	1			

Penetration Resistance Proportions Notes and Comments: Granular Soils Cohesive Soils Trace: 0 - 10% Little: 10 - 20% Blows/ft Density Blows/ft Density <2 V. Soft Some: 20 - 35% V. Loose <4 2 - 4 Soft And: 35 - 50% Lost 30 gallons of water during drilling. 4 - 10 Loose 4 - 8 m. Stiff Water Content 10 - 30 m. Dense 30 - 50 Dense 8 - 15 Stiff D - Dry >50 V. Dense 15 - 30 V. Stiff M - Moist W - Wet >50 Hard



LCMW09.XLS 10/15/96



## ANEPTEK

CORPORATION

ANG/Stewart ANGB Site 1/ DAHA-90-93-D-003/DO-08

Client/Project/Contract No.:

Page 1 of 2 Boring/Well No.:

Sampler Type/Size:

	CORPO	KATION	•	Samp	ner Type/Size:			DOTHIS/ WEI	ii 140.:		
	Boring	Log		2' SI	olit Spoon/ 5' l	NX Core Barrel		MW-11			
Drilling Co	ntractor:	<u>_</u>	Drilling R	ig Mal	ke/Model:		Date/Time Started	Date/Ti	ime Finished		
East Coast	Thomas		CME Tra	ck Ri	<u> </u>	11/8/95 1100	11/9/95	930			
Logged By:			Drilling M				Screening Device (Type, make, model):				
K.Kutawsk			HSA / N	Y Cor	e Rarrel		Photovac FID /Bachara	ach 4 Gas			
	urvey coord):		Ground. I		Total Depth:	Bedrock Depth:	Water Table Depth:	Borehole D	iameter:		
	N 569216.3		388.69 ft.		29.0 ft.	18.0 ft	NA	8.25"(0-19')/			
Depth	Sample	Sample	Blows/	Rec.	25.0 11.	10.010	1	USCS	FID		
(ft)	Interval (ft)	Number	6-in.	(in.)		Lithologic Des	scription	Class.	(ppm)		
								<b>1</b>			
	0-2		1,1	6		LT, trace m. gravel, t	race I.	ML	f		
1			2,2		gravel, pieces of	wood, molded			ļ		
	4										
2			44.0	-	n	OT TO 1541 - 6	1	ML	f		
	2-4		11,8	20	1	yey SILT, little f. gra	vei	MIL	1		
3			11, 8		trace m. gravei,	trace f. sand, molded					
	-				Į.						
4	1.6			2	Drown moist als	yey SILT, little f. gra		ML	f		
, —	4-6		5,5 5,8			trace f. sand, tiny piec		10112	i '		
5	-		3,0		molded	trace i. saiki, tilly piec	cs of placey fock				
6 —	-				rock in nose						
°	6-8		8,9	18		yey SILT, little to some	e fm. gravel, trace	ML	f		
7 —	-		13,8	10	f. sand mottled	yey oner, mae to som	o I. III. Biuvoi, iluoo	"			
l ' —	1		15,0	1	i. sana mondo						
8	1	1									
° -	8-10		6,4	18	Outside of spoon	wet, water ran out of	spoon	ML	f		
_ و ا	1		13,10		-	LT, some f. gravel, tra	=				
-	1		,	1		tside of material; wet,					
10 —	1				moist						
	10-12		2,3	18	Tan saturated cla	yey SILT, some f. gra	vel, trace m. gravel	ML	f		
11	1		7,14		little f. sand, roc	k in nose					
					l						
12	]										
	12-14		29,11	24	0-15" Tan satura	ted clayey SILT, some	e f. gravel, trace	ML	f		
13			9,11		m. gravel little f	. sand, rock in nose					
					15-24" same ma	terial, outside of mater	ial was saturated				
14					inside of materia						
	14-16		7,16	24		, some f. gravel, trace	-	ML	f		
15	_		20,19	1		side of material wet, is	nside of material				
_	4				moist						
16				-				<del> </del>	<del> </del>		
	16-18		15,21	12		st, tight clayey SILT, s		ML	f		
17 —	4	1	23,30		trace to little pla	tey gravel and m. sand					
	4	l	1	1							
	Penetration				Proportions	Notes 3 C	<b>4 a a</b>				
	ular Soils		sive Soils		e: 0 - 10% e: 10 - 20%	Notes and Commen	us:				
Blows/ft	V. Loose	Blows/ft	V. Soft		: 10 - 20% :: 20 - 35%	Lost approximately 3	30 gallons of water during dril	ling.			
4 - 10	Loose	2 - 4	Soft	And:	35 - 50%		-				
10 - 30	m. Dense	4 - 8	m. Stiff		Water Content	]					
20 50	Dence	R - 15	Stiff	1	D - Drv	l					

Dense

V. Dense

8 - 15

>50

15 - 30

Stiff

Hard

V. Stiff

D - Dry

M - Moist

W - Wet

30 - 50

>50

<b>ANEPTEK</b>
CORPORATION

ANG/Stewart ANGB Site 1/ DAHA-90-93-DO-008

Page 2 of 2

ON

Sampler Type/Size:

Client/Project/Contract No.:

Boring/Well No.:

Boring Log

2" Split Spoon/ 5' NX Core Barrel

MW-11

Boring Log				2" S <sub>1</sub>	plit Spoon/ 5' NX Core Barrel	MW-11		
Depth	Sample	Sample	Blows/	Rec.		USCS	PID/FID	
(ft)	Interval	Number	6 in	(in.)	Lithologic Description	Class.	(ppm)	
18								
	18-19.4		20,30	11	Dark grey very soft weathered shale, crumbles in hand		f	
19			50/4"		iron staining between fractures, no soil, scratches easily			
					with knife, m. gravel to sand size pieces of rock	ļ		
20			Min/ ft		Begin Coring at 19' with Step Bit			
21	19-24		4.5	2	Dark grey fractured shale, no iron staining, white calcite		f	
			7		viens throughout, too small a sample to see bedding planes			
22			10		or fracture orientation			
	1		6					
23	1		8					
24								
	24-29		4	53	Dark grey weathered shale -iron staining in fractures		f	
25			5		white calcite viens throughout, fractures at 45			
			5		degree angles along bedding planes			
<sup>26</sup> —			5		RQD= 26.3%			
	l		6.5					
27	ł							
28	1							
	]							
29								
					E.O.B 29 ft.			
30		1						
],, —								
31	ł							
32	ł							
	1							
33	1							
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Notes and Comments:

**ANEPTEK** 

Client/Project/Contract No.: ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08 Page 1 of 3

	AINE	ANDFIER			ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08 Page 1 of 3					1 3	
	CORPO	RATION	1	Samp	Sampler Type/Size:				Boring/Well No.:		
	Boring	Log		2' Sp	2' Split Spoon / 5' NX Core Barrel				MW-14		
Drilling Con			Drilling R	ig Make/Model: Date/Time Started				Started	Date/Time Finishe		
East Coast	Thomas		CME 75				7/22/96	1610	7/26/96	1817	
Logged By:			Drilling M	ethod			Screening Device	e (Type, m	ake, model):		
C. Devons	hire		HSA / N	K Cor	e Barrel		Foxboro FID	128 / Bad	charach 4 C	as Meter	
	rvey coord):	*	Ground E	l.:	Total Depth:	Bedrock Depth:	Water Table	Depth:	Borehole Di	ameter:	
568667.17	N, 545175.	11 E	408.8		57.0'	42.25'	9.3'		8"(0-16')/4"	(16-57')	
Depth	Sample	Sample	Blows/	Rec.					USCS	PID/FID	
(ft)	Interval	Number	6-in.	(in.)		Lithologic Des	scription		Class.	(ppm)	
	0-2	MW-14	1	11	Brown topsoil				GM	F	
1		0-2	3								
	]		6								
2			6								
	2-4	MW-14	9	16	1 .	wn, slightly moist, stif	<u>-</u>		ML	F	
3		2-4	16			e fm. sand, trace f. g	ravel, trace organi	С			
	-		21		material (weathe	erea till)					
4 —	4-6	MW-14	24 11	13	Gray brown clic	thtly moist, stiff to ver	v ctiff clavey SII T		ML	F	
5 —	4-0	4-6	17	13		little f. gravel (weathe		•	1412	•	
<b></b>	1	7-0	21		nuic 1. c. sand,	nuio 1. giuvoi (woudio	iou un,				
6 —	1		17								
	6-8	MW-14	21	12	Brown, slightly r	noist, very stiff to stiff	SILT, little fc.		ML	F	
7	1	6-8	21		sand, some fm	. gravel, slatey rock c	obble fragments				
			13		(weathered till)						
8			16	ļ							
	8-10	MW-14	4	14		noist to wet, medium			ML	F	
9 —		8-10	5		some fc. sand,	little fm. gravel (we	athered till)				
,, –	4		9 11		-						
10	10-12	MW-14	8	24	Brown saturated	l, stiff SILT, little m	sand little fm.		ML	F	
11 —	10-12	10-12	10		gravel (weather		, , , , , , , , , , , , , , , , , , , ,			-	
l	1		17	1							
12	1		13								
	12-14	MW-14	16	24	Brown, saturated	l, hard SILT, little m	c. sand, little fm	•	ML	F	
13	1	12-14	32	1	gravel (weather	ed till)					
_	4		33								
14		,,,,,,,	46	<del> </del>	D		- A		100	17	
], –	14-15.5	MW-14 14-15.5	51 47	10		moist, hard SILT, trace ragments (weathered to	•	Γ.	ML	F	
15	1	14-15.5	106		giavei, cooble i	ragments (weathered t	ш,				
16 —	1			1	Roller Bit to 16.	5'					
	1										
-											
	Penetration				Proportions						
	ılar Soils		ive Soils	<b>⊣</b>	: 0 - 10%						
Blows/ft	V. Loose	Blows/ft	V. Soft	1 '	: 10 - 20% :: 20 - 35%						
4 - 10	Loose	2 - 4	Soft	And:	35 - 50%						
10 - 30	M. Dense	4 - 8	M. Stiff		Water Content	4					
30 - 50 >50	Dense V. Dense	8 - 15 15 - 30	Stiff V. Stiff		D - Dry M - Moist						
1	4. Delise	>50	Hard		W - Wet					_	
		<u> </u>									

10/15/96 MW#14LOG.XLS

	ANEPTEK
17	CORPORATION
	Dowing Log

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

Client/Project/Contract No.:

Sampler Type/Size:

Page 2 of 3

Boring/Well No.:

	<b>Boring</b>	Log		5' NX Core Barrel			MW-14		
	Sample	Sample	Minutes/	Rec.		USCS	PID/FID		
(ft)	Interval	Number	12-in.	(in.)	Lithologic Description	Class.	(ppm)		
7	16.5-18.5	No sample	1	0	Began coring at 16.5' with Series 8 diamond bit.				
	1		2		No sample recovered.				
.8									
					20 gallons of water lost				
19	18.5-23.5	MW-14	2	28	Gray, saturated, hard SILT and CLAY, trace f. sand,	ML	F		
		18.5-23.5	4		some fc. gravel, cobble fragments (lodgment till)				
20	]		8						
			3						
.1			3						
						1			
					22.5'-23.5' - Sandstone boulder fragment				
23	ì ì								
	<u> </u>				30 gallons of water lost				
4	23.5-28.5	MW-14	4	18	Gray, saturated, hard SILT and CLAY, trace f. sand,	ML	F		
	į	23.5-28.5	. 5	į.	some fc. gravel, cobble fragments (lodgment till)				
25			6						
			2		,				
26			4	ļ					
		:							
27	·								
, <u> </u>									
28	-								
29 —	28.5-32	MW-14	2	36	Gray, saturated, hard SILT and CLAY, trace f. sand,	ML	F		
	20.3-32	28.5-32	1	50	some fc. gravel, cobble fragments (lodgment till)		-		
30 —	1	20.3 32	1		tomo I. O. gravos, occoro inguina (conguina im-)				
			.5(6")						
31			.5(0 )						
32									
	32-37	MW-14	1	60	Gray, saturated, hard SILT and CLAY, trace f. sand,	ML	F		
33	1	32-37	1		some fc. gravel, cobble fragments (lodgment till)	1			
	1		1	l					
14	]		1						
			1	1					
35	]								
	1								
36	1								
	1								
37				<u> </u>					
	37-38.33		NR	14	Gray, saturated, hard SILT and CLAY, trace f. sand,	ML	F		
			Ī		some fc. gravel, cobble fragments (lodgment till)				
	-	-	-						

Notes and Comments:

NR - not recorded

10/15/96

<sup>1)</sup> Drilling was stopped at 37.5' due to noises in drill rig. Noises were due to vibrations caused by a worn drill bit. The series 8 diamond bit was replaced with a series 8 diamond step bit. Hole had to be reamed out due to the width of the new bit.

<sup>2)</sup> Rain prevented use of the FID for several intervals, so a Bacharach 4-gas meter (02, CO, H2S, LEL) was used for screening.

**ANEPTEK** CORPORATION Roring Log

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

Sampler Type/Size:

Boring/Well No.: NY 5' Core Barrel

Client/Project/Contract No.:

MW-14

Page 3 of 3

Boring Log NX 5' Core Barrel				5' Core Barrel	MW-14			
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID	
(ft)	Interval	Number	12-in.	(in.)	Lithologic Description	Class.	(ppm)	
38	38.32-42	MW-14 38.3-42	NR 2 1 2	36	Gray, saturated, hard SILT and CLAY, trace f. sand, some fc. gravel, cobble fragments (lodgment till)	ML	F	
41	42-47	Run 1	4	24	42'-42.25' - Gray, saturated, hard SILT and CLAY, trace	ML	F	
4445			4 3 3 2		f. sand, some fc. gravel, cobble fragments (lodgment till) 42.25'-44' - Gray, soft shale weathered to rubble, heavily oxidized, few calcite veinlets, bedding plane 45° to horiz., non-planar open fractures along bedding, 6-12 frac./ft., trace sand, silt and clay within fractures, non-planar vertical joints with secondary quartz mineralization and oxidation at 45.9' and 46'. RQD=0%  44'-47' - no recovery			
48	47-51.5	Run 2	3 3 6	31	47'-49' - no recovery 49'-49.5' - loose shale rubble		F	
50			7 NR		49.5'-50.5' - Gray, soft shale weathered to rubble, oxidized, bedding plane 70° to horiz. 10-20 fractures/ft. 50' - vuggy solution cavities and quartz veinlet 50.5'-51' - bedding plane 45° to horiz. 51'-51.5' - Gray, soft competent shale, 0 fractures. RQD=19%			
52 53 54 55	51.5- 56.1	Run 3	6 7 5 7 6(8")	46	51.5'-53' - Gray, soft, competent shale, drill-induced fractures along bedding, bedding 50° to horizon., pyrite along bedding, some calcite veinlets 53' -53.8' - grades to fine-grained, silty sandstone 53.8' - open frac. w/secondary min., incr. calcite veinlets 53.8-55.32' - Gray, soft shale, tight non-planar subvert. joint at 54', planar fracture along bedding with		F	
56	-				oxidation at 55'. RQD=92%  55.32'-56.1 - no recovery  Roller Bit to 57'	:		
					E.O.B 57'			

Notes and Comments:

NR - not recorded

				Clien	t/Project/Cont	ract No.:			
	ANE	PTEK		ANG	/Stewart ANGI	3 Site 2/ DAHA-9	0-93-D-0003/D0-04	Page 1	of 3
	CORPOR	RATION		Samp	oler Type/Size:		Boring/Well No.:		
	Boring	Log		2' S	plit Spoon/ 5	' NX Core Barre	!	SB-01	
Drilling Cor			Drilling Ri		,		Date/Time Started	Date/Time	Finished
	East Coast Thomas CME Tra						10/2/95 1713	10/4/95	1327
Logged By:			Drilling M				Screening Device (Type		
							1	,	
R. Ramug		N -	HSA / NX Ground, E		Total Depth:	Bedrock Depth:	HNU PID 10.2 eV Water Table Depth:	Borehole D	iameter:
:	urvey coord N 56865		433.8		50 ft.	40 ft	NA	8.25"(0-10'	1
Depth	Sample	Sample	Blows/	Rec.	50 It.	70 II		USCS	FID
(ft)	Interval (ft)	Number	6-in.	(in.)		Lithologic Des	scription	Class.	(ppm)
				(,					
_	<b>0-2</b>	SB-01-02	7,13		0-4" Brown top			l l	ф
1 _			12,19	22			ttle gravel, little mc. sand	ML	
					·	own dense SILT, so	me gravel, some mc.		
2					sand				
					HSA to 4'				
3 —	y ,								ļ
	,								
4							1 Pate 6 and 4 and a state		1
	4-6	SB-01-06	6,16	16	Grey soft loose	SIL1, some f. grave	el, little f. sand, trace clay	ML.	•
5			20,21					1 1	
. —	e							1	
6					1104 4 01				
_ —	-				HSA to 9'		•	1	
7	-						*		
			,						
8							,		
9 —	=								
"	9-10	SB-01-10	13	12	Grev stiff SILT.	some clay, little f.	sand, little c. sand, trace	ML	ф
10 —	3-10	00-01-10	50/6"	) '~	gravel, refusal	•	,		
'`			Min/ ft			10' with Popcorn E	lit		ф
11 —	10-13 -	SB-01-13	8	18	10-11' Boulder				
``	10.10		4		i	ry dense CLAY, fn	n. gravel, little silt	CL	
12	:		7		(lodgement till)	•		-	
· -	1	•						-	
13			1						
	13-15		16	1	Switched to St	ep Bit because mate	erial was too hard		ф
14			10	20	Grey hard CLA	Y and fm. GRAVEL	, little silt, 2 boulders, can	CL	
l —			]		be rolled to 1/8	" when wet (lodger	nent till)	1 1	
15				l	1				
	15-18.5	SB-01-18.5	1.5	42	Grey hard CLA	Y and fm. GRAVEL	., some silt, slightly plastic		
16	] -		1.5	[	(lodgement till)				
	]		2		(Lost approxim	ately 35-40 gallons	of water)	CL	φ
17	]		Í		1				
	-								
	Penetration	Resistance	<u> </u>	1-	Proportions	1			
Granu	ar Soils	Cohesiv		j	e: 0 - 10%	Notes and Comme	nts:		
Blows/ft	Density	Blows/ft	Density V. Soft		: 10 - 20% e: 20 - 35%	1			
<4 4 - 10	V. Loose Loose	<2 2 - 4	V. Soft Soft		35 - 50%				
10 - 30	m. Dense	4 - 8	m. Stiff		ater Content	1			
30 - 50	Dense	8 - 15	Stiff		D - Dry	1			
>50	V. Dense	15 - 30	V. Stiff		M - Moist				
	<u> </u>	>50	Hard	<u> </u>	W - Wet	<u> </u>			

	ANIE	DTEV			t/Project/Contract No.:			
		PTEK		ANG	RC/Stewart ANG/ DAHA-90-93-D-0003/DO-04	Page 2	of 3	
		Sam	pler Type/Size:	Boring/Well No.:				
Boring Log				5' N	X Core Barrel	SB-01		
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID	
(ft)	Interval	Number	12 in	(in.)	Lithologic Description	Class.	(ppm)	
18	]							
19 —				<u> </u>	<u> </u>			
'" -	18.5-20				Roller Bit through boulders 18.5'-20.0'			
20			- An - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2					
21 —								
-	20-25	SB-01-25	2	54	Grey very stiff CLAY and fm. gravel, trace fc. sand, trace	CL	ф	
22	1		5		to little silt, trace cobbles (lodgement till)			
			2.5		Rolls to 1/8" when wet			
23			2					
24 —	-		1.5					
24 —	1							
25								
	25-27.5	SB-01-27.5	3	30	Grey very stiff CLAY and fm. gravel, trace fc. sand, trace			
26	4		2		to little silt, trace cobbles (lodgement till)	, l		
27 —	-				Rolls to 1/8" when wet Bottom 6" Brown tinge	CL	Ψ	
-	1				·	1		
28	27.5-30							
	4				Roller Bit 27.5' to 30.0'			
<sup>29</sup> —				1				
30 —	1 .	,	-					
	30-32.5	SB-01-32.5	2		Grey-brown hard CLAY and fm. gravel, trace fc. sand,			
31	]		2		trace to little silt, trace cobbles (lodgement till)			
	4				Rolls to 1/8" when wet	CL	ф	
32	-			İ	ļ ·			
33						<u> </u>		
	32.5-35				Roller Bit 32.5 to 35'			
34	-	-	1			•		
35								
	35-37				NO RECOVERY			
36	4		1					
37 —	1							
	1					1		
38								
	4				Roller Bit 37' to 40'			
39 39	-	1						
] -	-[	i		1		1		

Notes and Comments:

Lost 800 gallons of water. Water being lost in top 10' where the augers are seated. Ground around drilling mounding due to water build up.



Client/Project/Contract No.:

ANGRC/Stewart ANG/ DAHA-90-93-D-0003/D0-04

Page 3 of 3

Sampler Type/Size:

Boring/Well No.:

5' NX Core Barrel

SB-01

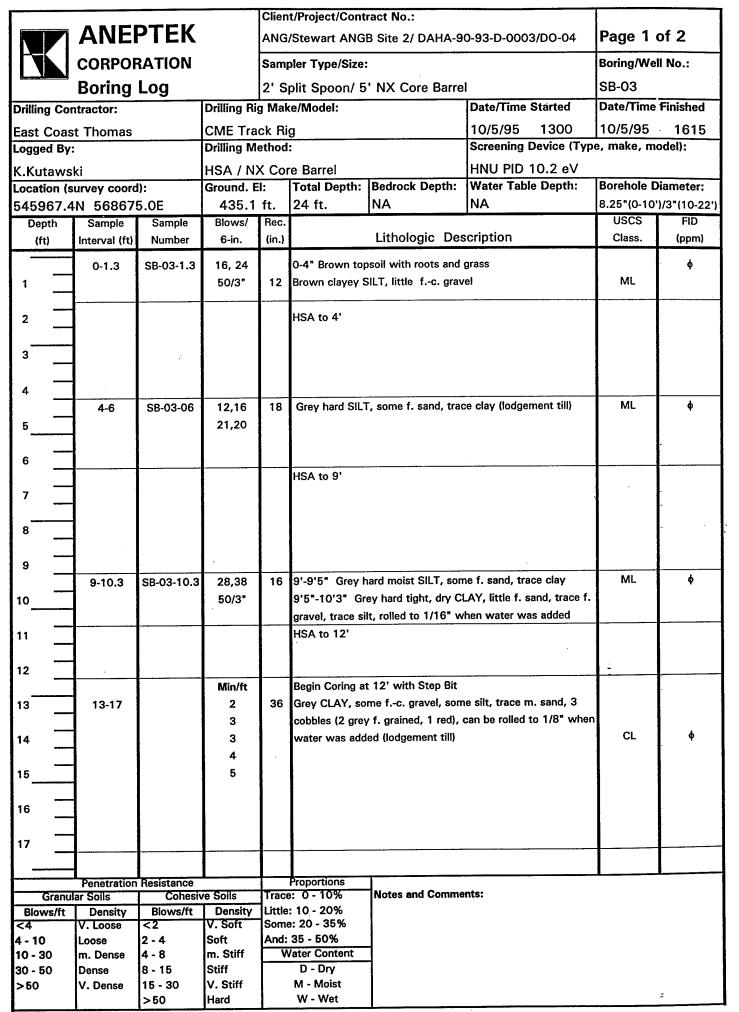
Boring Log				5' N	X Core Barrel	SB-01		
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID	
(ft)	Interval	Number	12 in	(in.)	Lithologic Description	Class.	(ppm)	
10								
	40-45		3.5	48	No soil recovery		ф	
41			4		Weathered shale - dark-blue grey, fine grained, iron staining			
•			3		throughout, bedding planes dipping approximately 40°-45°,			
42			7		fractures along bedding planes, iron staining visible in			
			4		fractures, no secondary mineralization, can be scratched easily			
43					with knife			
-					RQD=0			
14								
45								
46	45-50		5.5		Weathered shale - dark-blue grey, fine grained, iron staining		ф	
			6		throughout, bedding planes dipping approximately 40°-45°,			
47			6		fractures along bedding planes, iron staining and m. grey sand	'		
			6		visible in fractures, no secondary mineralization, can be			
48			4.5	•	scratched easily with knife			
					RQD=0			
49		•						
				<b>1</b>	-		Ī	
50								
					E.O.B 50 ft	Į.		
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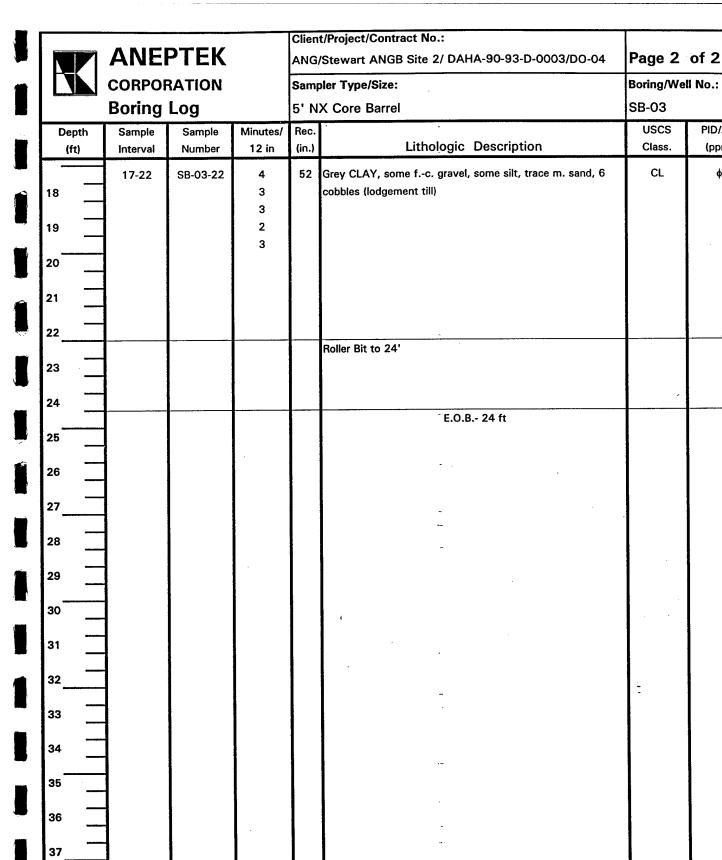
<u> </u>		<del></del>		Clien	t/Project/Contr	act No.:				
ANEPTEK					NG/Stewart ANG Site 2/ DAHA-90-93-D-0003/D0-04 Page 1 of 2					
CORPORATION					Sampler Type/Size:				Boring/Well No.:	
Boring Log					plit Spoon/ 5'	NX Core E	Barrel		SB-02	
Drilling Cor		3	Drilling Ri		•			Date/Time Started	Date/Time	Finished
	t Thomas		CME Tra	-				10/4/95 1612	10/4/95	1900
Logged By			Drilling M					Screening Device (Type		
			HSA / N			,		HNU PID 10.2 eV	•	
K.Kutaws	urvey coord	(\·	Ground. E			Bedrock <sup>-</sup> De	oth:	Water Table Depth:	Borehole D	iameter:
	IN 56868		434.5		24 ft.			NA	8.25"(0-10'	1
Depth Depth	Sample	Sample	Blows/	Rec.					USCS	FID
(ft)	interval (ft)	Number	6-in.	(in.)		Lithologic	Des	cription	Class.	(ppm)
		60.00.00	0.10	21	0-5" Brown top	aail with saata	little	f gravel	ML	ф
1	0-2	SB-02-02	9,12 25,27	<b>2</b> 1				d, trace f. gravel	IVIL	Ψ
			25,27		Tall V. Still Clay	ay oili, iitio	i. Juii	a, trace it graver		
2						•				
					HSA to 4'	5				
3		+ *								
_						1			1	
4		,				-				
	4-6	SB-02-06	6,22	22	4.0'-4'4" Tan c	layey SILT, lit	tle f. s	and, trace f. gravel	ML	ф
5			31,30	ŀ	4'4"-6.0' Grey l					
-					(lodgment till)	ď				
6									1	
				İ	HSA to 9'	-				:
7						-			.]	
				İ						
8						-				
l , —	•	-				=				
9 —		00.00.40.0	10.40	10		·· CUT	z			
10 —	9-10.2	SB-02-10.2	10,42	10	1	y SILI, some	rm. :	sand, trace c. sand, trace t	ML	
1 <sup>1</sup>	ł	_	50/2"		gravel				IVIL	Ψ
11 —					HSA to 15'	141041611				
l'' —	ł				1134 (0 13					
12										
						•	•		<b> </b>	
13	1									
-	1			1						
14	1			Ī		-				
				[						
15			Min/ft	1	Begin Coring wi					
	15-19		2		NO RECOVERY					
16	]		6		Rock jammed in	n barrel -				
	1		3	1		-				
17	1	Ì	3.5	Ī		-				
	4					<del>-</del>				
		Resistance	o Calla		Proportions	Notes and Co		nte:		
Granu Blows/ft	ar Soils	Cohesiv Blows/ft	ve Soils  Density		: 0 - 10% : 10 - 20%	INOTES AND CO	mmer	ito.		
8iows/π <4	Density V. Loose	<2	V. Soft		: 10 - 20 % e: 20 - 35%					
4 - 10	Loose	2 - 4	Soft		35 - 50%					
10 - 30	m. Dense	4 - 8	m. Stiff	W	ater Content					
30 - 50	Dense V. Dense	8 - 15 15 - 30	Stiff V. Stiff		D - Dry M - Moist	1				
>50	v. Dense	>50	V. Stirr Hard		W - Wet					
L	J.,,,,	1		1		<u> </u>				

<b>ANEPTEK</b>			t/Project/Contract No.: /Stewart ANG Site 2/ DAHA-90-93-D-0003/D0-04	Page 2 of 2			
				1	oler Type/Size: X Core Barrel	Boring/Well No.: SB-02	
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID
(ft)	Interval	Number	12 in	(in.)	Lithologic Description	Class.	(ppm)
18					Roller Bit to 19'		
19 _		a 					
20	19-24	11 April 11 1	1		NO RECOVERY - Grey fine grained rock jammed in core		
21 – 22 –			1.5 1 1		barrel		
23	1		, 				
24		g:					
25		- · · · · · · · · · · · · · · · · · · ·			E.O.B 24 ft		
26 _							
27							
28 -		-					
29 					·		
31		·					
32 _		,					
33	=	7. 6				<del>-</del>	
34 _					·		
35							
36 - 37		-					
38							
39		-					

Notes and Comments:

500-600 gallons of water lost during drilling.





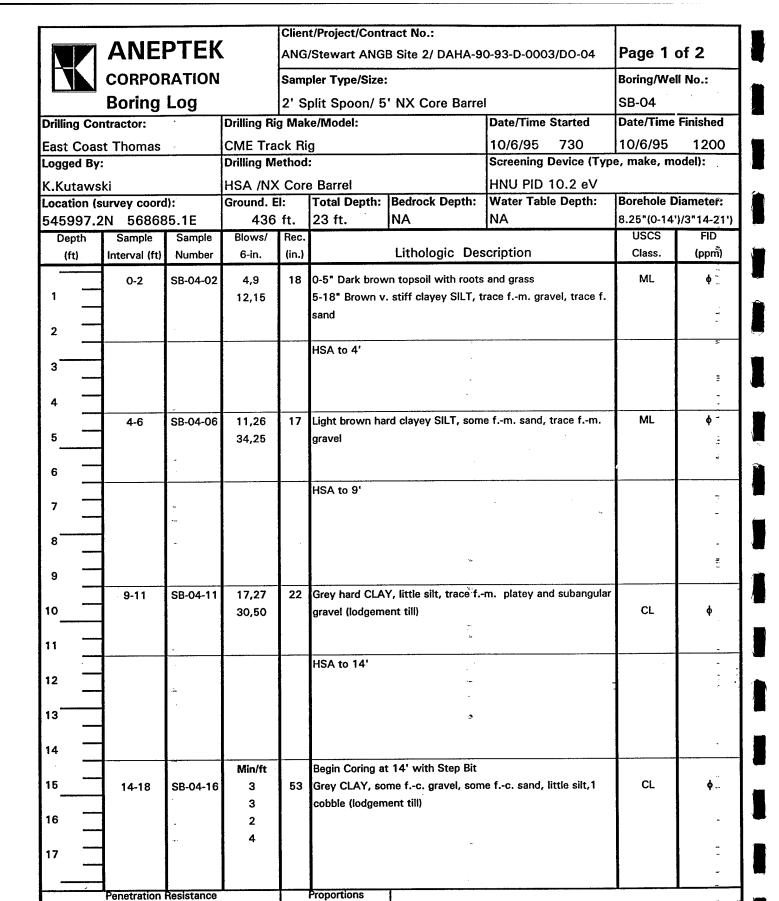
PID/FID

(ppm)

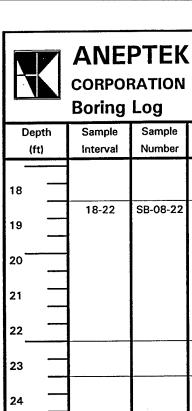
Notes and Comments:

38

39



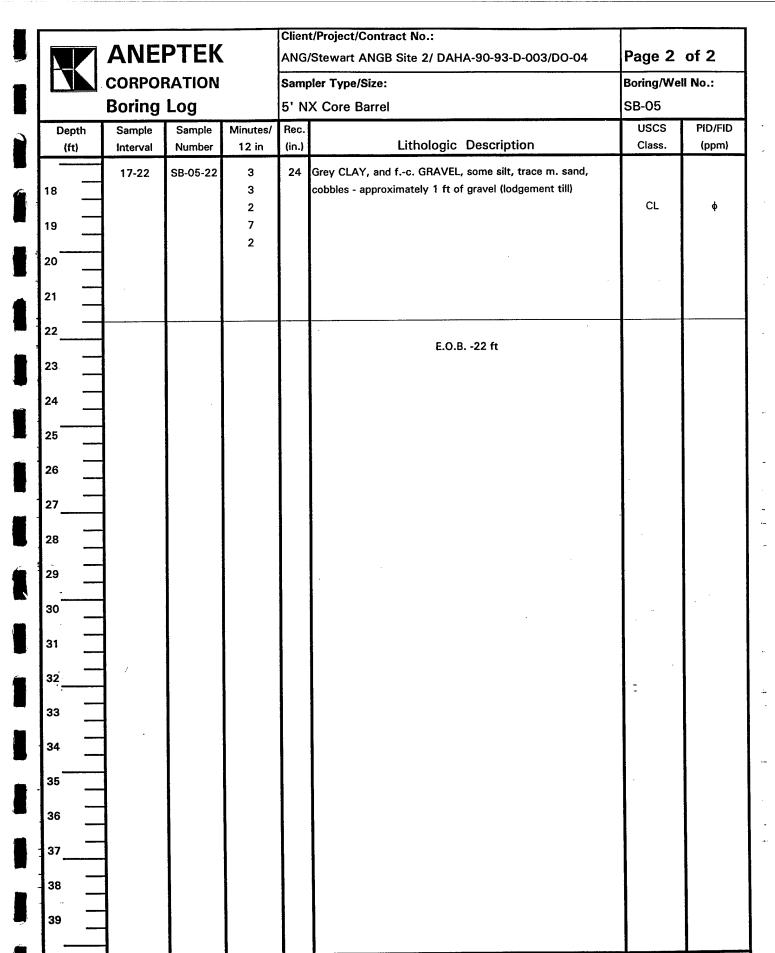
Cohesive Soils **Granular Soils** Trace: 0 - 10% Notes and Comments: Little: 10 - 20% Blows/ft Blows/ft Density Density <4 V. Loose **<2** V. Soft Some: 20 - 35% And: 35 - 50% 2 - 4 Soft 4 - 10 Loose m. Stiff Water Content 10 - 30 m. Dense 4 - 8 8 - 15 D - Dry 30 - 50 Dense Stiff 15 - 30 V. Stiff M - Moist >50 V. Dense W - Wet > 50 Hard



		t/Project/Contract No.: /Stewart ANGB Site 2/ DAHA-90-93-D-0003/D0-04	Page 2 of 2		
	Sam	oler Type/Size:	Boring/We	ll No.:	
	5' N	X Core Barrel	SB-04		
Minutes/	Rec.		USCS	PID/FID	
12 in	(in.)	Lithologic Description	Class.	(ppm)	
3	24	Grey CLAY, some fc. gravel, some fc. sand, little silt, few	CL	ф	
2		cobbles (lodgement till)			
3	1	_			
3		##.			
3					
		"			
	ĺ	# -			
		Roller Bit to 23'			
-		E.O.B 23⁵ft.			
۱.,			ł		

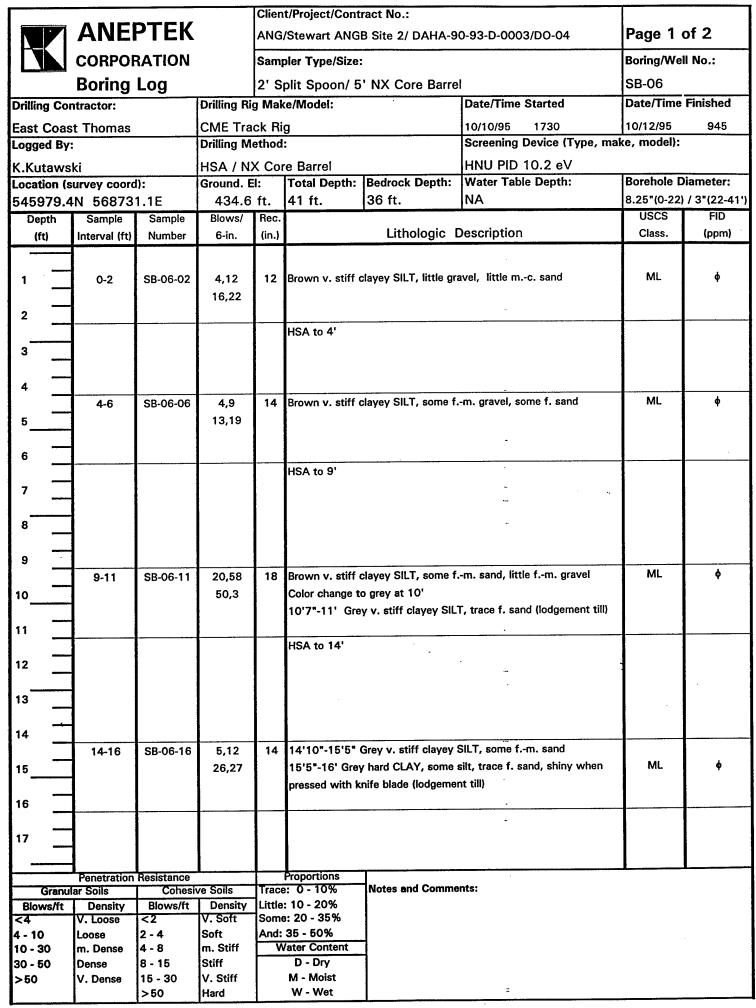
Notes and Comments: Series 2 Bit used

Client/Project/Contract No.: **ANEPTEK** ANG/Stewart ANGB Site 2/ DAHA-90-93-D-0003/DO-04 Page 1 of 2 CORPORATION Sampler Type/Size: Boring/Well No.: **Boring Log** 2' Split Spoon/ 5' NX Core Barrel SB-05 **Drilling Contractor: Drilling Rig Make/Model:** Date/Time Started Date/Time Finished 10/10/95 1050 10/10/95 East Coast Thomas CME Track Rig 1440 Logged By: **Drilling Method:** Screening Device (Type, make, model): **HSA / NX Core Barrel** HNU PID 10.2 eV K.Kutawski Total Depth: Bedrock Depth: Water Table Depth: **Borehole Diameter:** Location (survey coord): Ground. El: 22 ft. NA 546013.4N 568709.2E 435.8 ft. 8.25"(0-13')/3"(13-22') USCS Depth Sample Blows/ Rec. FID Sample Lithologic Description Class. (ft) Interval (ft) 6-in. (in.) (ppm) Number SB-05-02 2,15 Brown m. dense SILT, some f. sand, trace clay 0-2 10,15 Rock in nose ML HSA to 4' 3 4-6 SB-05-06 5,6 Brown m. dense SILT, some f. sand, some f.-c. gravel, trace ML 5,10 Color change to grey in bottom 2 " HSA to 8' 8.0'-9'2" Grey m. dense f. SAND, some silt, trace clay SM SB-05-10 8,11 8-10 9'2"-10.0' Grey hard CLAY, some silt, trace f. sand CL 17,27 (lodgement till) 10 Roller Bit to 14' 11 12 13 14 Min/ft Begin Coring at 14' with Step Bit CL 14-17 SB-05-17 2 Grey CLAY, and f.-c. GRAVEL, some silt, trace f. sand 15 2.5 (lodgement till) 16 5 17 Penetration Resistance **Proportions** Notes and Comments: Granular Soils Cohesive Soils Trace: 0 - 10% Blows/ft Density Blows/ft Density Little: 10 - 20% <4 V. Loose <2 V. Soft Some: 20 - 35% And: 35 - 50% 2 - 4 4 - 10 Loose Soft Water Content 10 - 30 m. Dense 4 - 8 m. Stiff 8 - 15 30 - 50 Dense Stiff D - Dry >50 V. Dense 15 - 30 V. Stiff M - Moist >50 W - Wet Hard



Notes and Comments:

200 gallons of water lost during coring.





CORPORATION

Client/Project/Contract No.:

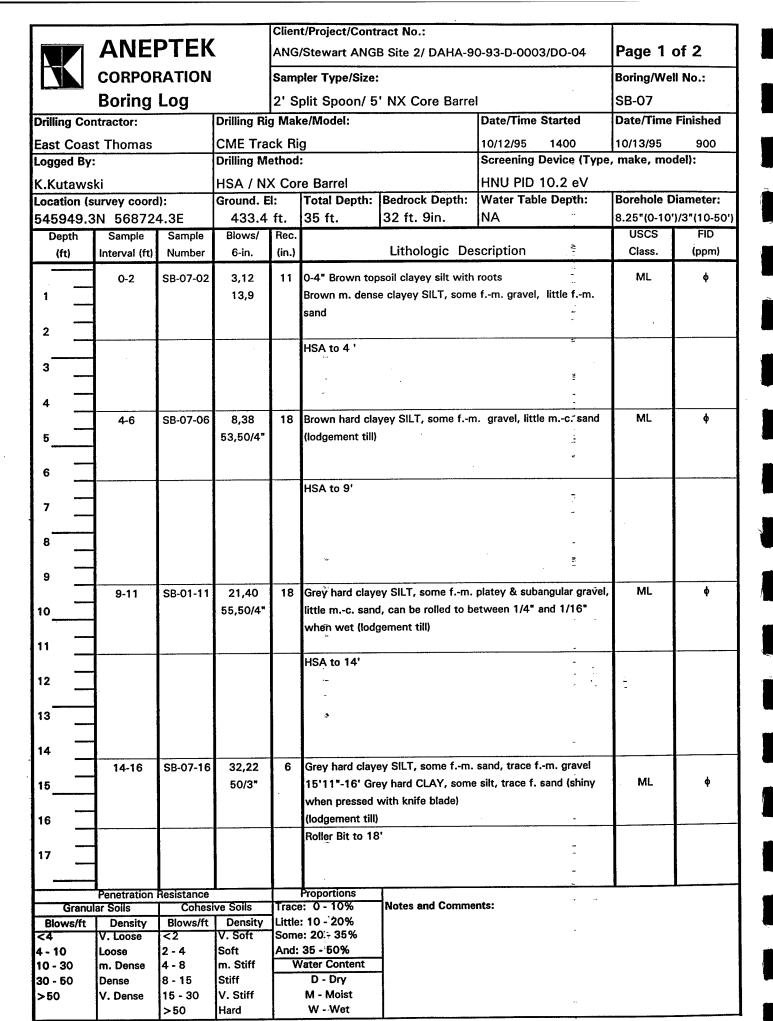
ANGRC/Stewart ANG/ DAHA-90-93-D-0003/D0-04

Sampler Type/Size:

Page 2 of 2 Boring/Well No.:

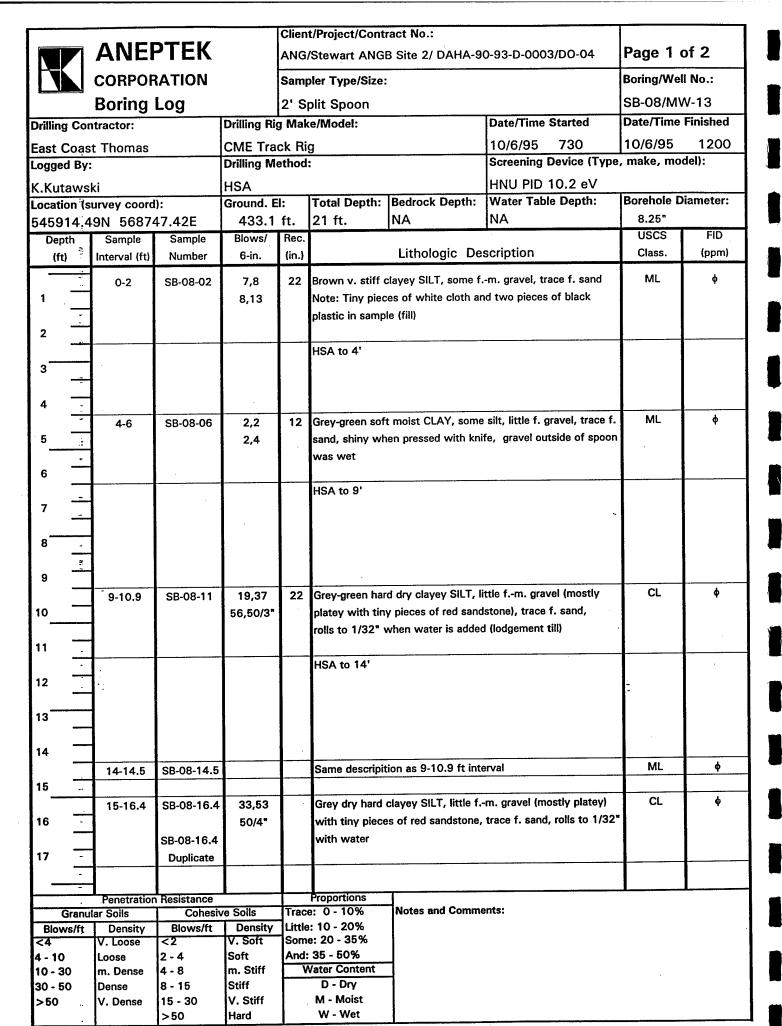
Boring Log				5' N	X Core Barrel	SB-06	
Depth	Sample	Sample	Minutes/	Rec.		USCS	PID/FID
(ft)	Interval	Number	12 in	(jn.)	Lithologic Description	Class.	(ppm)
					HSA to19'		
18							
_							
19							
	19-20.4		24,62	13	Grey hard CLAY, some silt, little fm. gravel (higher than last	CL	ф
20			50/4"		interval) (lodgement till)		
21					Roller Bit to 22.5'		
22							
23		00.65.55.5	Min/ft.		Begin coring at 22.5' with Step Bit		1
[, _	22.5-26.5	SB-06-26.5	5		Grey very stiff dense CLAY, some fm. gravel, some silt, little fc. sand (lodgement till)	CL	φ
24			4 6		TC. Sand (loagement till)		
25			5				
			Ŭ				
26				-			
-							
27				_			
28	26.5-31.5		2	12	Recovery 11' of rock - m. gravel, 2 cobbles		ф
			6		1" grey very stiff dense CLAY, some fm. gravel, some silt, little	CL	
29			10		fc. sand (lodgement till)	1	
	1		4		*		
30			5				
		:					·
31	31.5-34.5		10	22	0-9" Weathered shale fractures along bedding planes at 45°		
32 —	31.0-34.0		6		9-11" Grey moist CLAY - can be rolled 1/16" w/o water		•
l	1			4	11-16" Weathered shale fractures along bedding planes at 45°		
33	İ			-	16-21" Brown moist grey-green CLAY, f. gravel rolled to 1/16"		
				. !	21-22" Weathered shale		
34					Roller Bit from 34.5' to 36'		
	34.5-36						
<sup>35</sup> —	ļ						
<b>.</b> -	60.65	<u> </u>			Ministered shall days blue areas fine against less statistics	<del>                                     </del>	
<sup>36</sup> —	36-41	5		24	Weathered shale - dark-blue grey, fine grained, iron staining throughout, bedding planes dipping approximately 30°, fractures		
<sub>37</sub> —	ł	4			along bedding planes, iron staining visible in fractures, no secondary	,	*
) <sup>3</sup> /	1	3		•	mineralization, can be scratched easily with knife		
38	1	5		1	RQD=0		
	1			İ		1	
39	1						
	1			I	E.O.B 41 ft.		
41 —	1	l	l	<u> </u>		J	<u> </u>

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Client/Project/Contract No.: **ANEPTEK** Page 2 of 2 ANG/Stewart ANGB Site 2/ DAHA-90-93-D-0003/DO-04 CORPORATION Sampler Type/Size: Boring/Well No.: **Boring Log** 5' NX Core Barrel SB-07 **USCS** PID/FID Minutes/ Sample Sample Depth Lithologic Description Class. (ppm) Interval Number 12 in (in.) (ft) 18 Begin Coring at 18' with Carbide Bit 19 Rock jammed in barrel SB-07-23 18-23 3.5 Grey fine grained gravel recovered 3 20 4 21 4.5 6 22 23 Changed from Carbide Bit to Series 6 bit at 23' SB-07-25 23-28 4 CL Grey very stiff dense CLAY, some f.-m. gravel, some SILT, 24 2 SB-17-25 2.5 little f.-c. sand (lodgement till) **Duplicate** 3.5 Rolls to 1/16" when wet 25 3 26 27 28 Grey very stiff dense CLAY, some f.-m. gravel, some SILT, SB-07-33 28-33 3 little f.-c. sand (lodgement till) 29 SB-17-33 3 Rolls to 1/16" when wet Duplicate 3 32'9"-33' Weathered shale 30 Weathered shale - dark-blue grey, fine grained, iron staining throughout, bedding planes dipping approximately 45°, 31 fractures along bedding planes, iron staining visible in fractures, no secondary mineralization, can be scratched easily 32 with knife RQD=0 33 33-35 10 Weathered shale - same description as above 7 RQD = 034 6 35 E.O.B.- 35 ft 36 37 38 39

Notes and Comments:



	ANEPIER			ANG	/Stewart ANGB Site 2/ DAHA-90-93-D-0003/D0-04	Page 2 of 2		
	CORPORATION			Sam	oler Type/Size:	Boring/Well No.:		
Boring Log				5' N	X Core Barrel	SB-08/MW-13		
Depth	Sample	Sample	Blows	Rec.			PID/FID	
(ft)	Interval	Number	6 in	(in.)	Lithologic Description	Class.	(ppm)	
	]				HSA to 19'			
18 —	-							
19								
20	19-21	SB-08-21	13,19	17	0-14"Grey dry clayey SILT, some fm. platey to subangular gravel (lodgement till)	ML	ф	
<b> </b>	-		18,16		graver (loagement till) 14-17" Color change to darker grey and tighter material,			
21					rolls to 1/32" when water is added			
22 —	-				E.O.B 21 ft.			
	1							
23 —	4							
24 —	-							
25	-							
26	1			1	·			
27 —								
	_							
28					-			
29 —	1 .							
20								
30	-		1		1			
31	1							
32 -	-1			Î			1	
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33	4		1					
34	-							
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Client/Project/Contract No.:

RISB08.XLS 7/31/96

Notes and Comments:

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# APPENDIX E MONITORING WELL CONSTRUCTION LOGS

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### **CORPORATION** Well Completion Log

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

MW-01

Logged By:

M.Plumb/ J.Donovan

Client/Project/Contract No.:

10/31/95 0700

**Date/Time Started** 

Date/Time Finished 9/19/95 1630

Well/Boring No.:

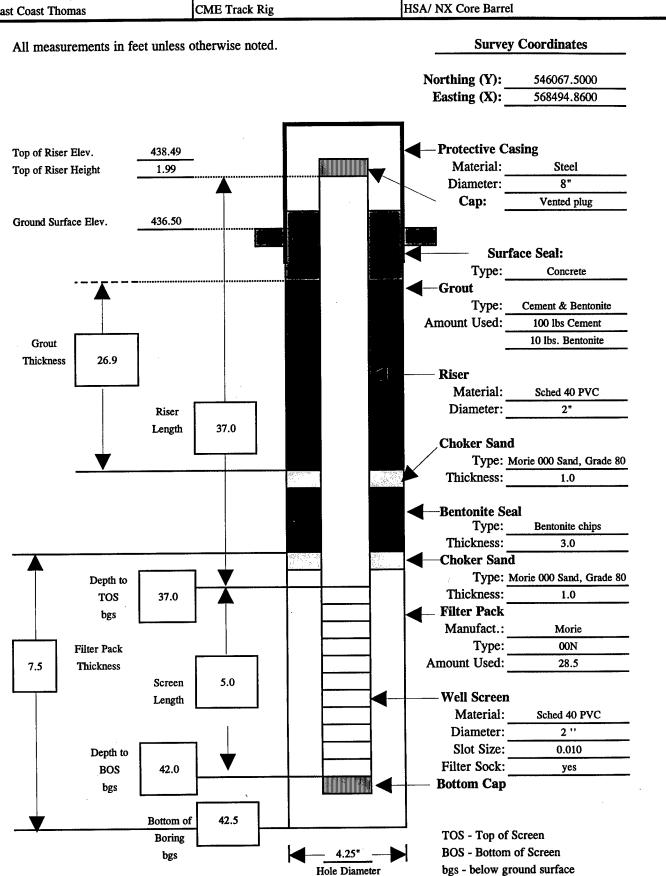
**Drilling Contractor:** 

Drilling Rig Make/Model:

**Drilling Method:** 

East Coast Thomas

CME Track Rig



# **ANEPTEK CORPORATION**

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

MW-04

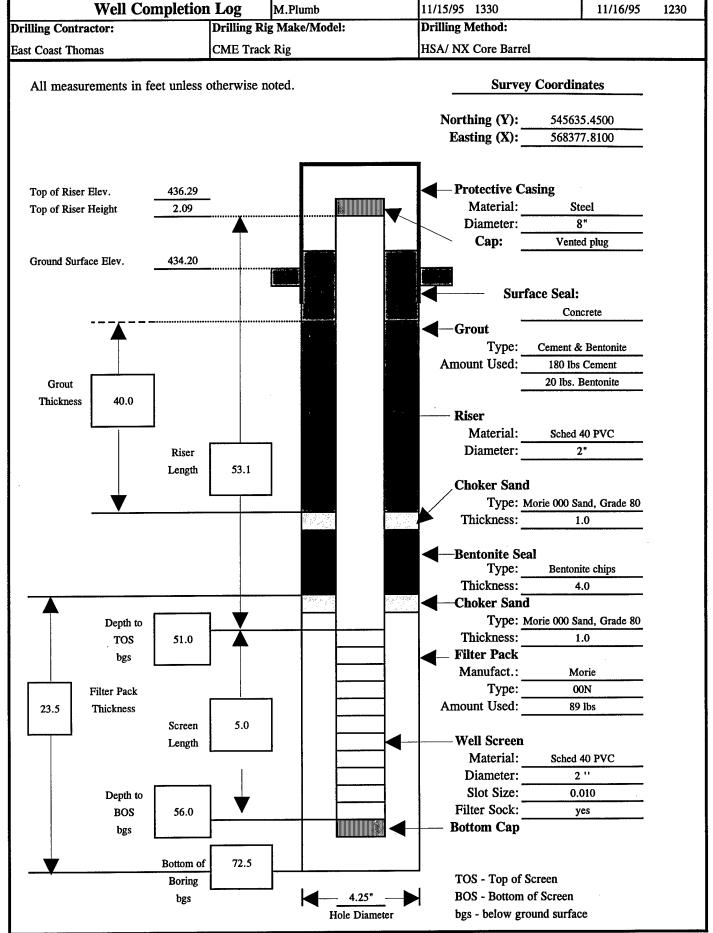
Logged By:

Client/Project/Contract No.:

**Date/Time Started** 

Date/Time Finished

Well/Boring No.:



## CORPORATION

Date/Time Started

Date/Time Finished

1430

Well Completion Log

M. Plumb/J. Donovan

Logged By:

Client/Project/Contract No.:

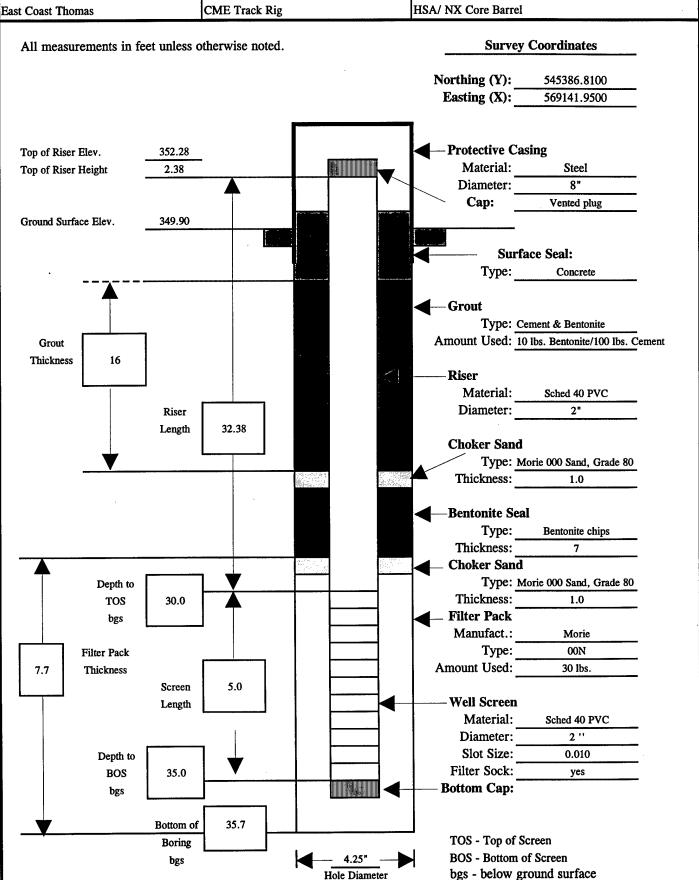
10/13/95 0700 **Drilling Method:**  10/31/95

Well/Boring No.:

MW-05

**Drilling Contractor:** 

Drilling Rig Make/Model:



## **CORPORATION**

**Well Completion Log** 

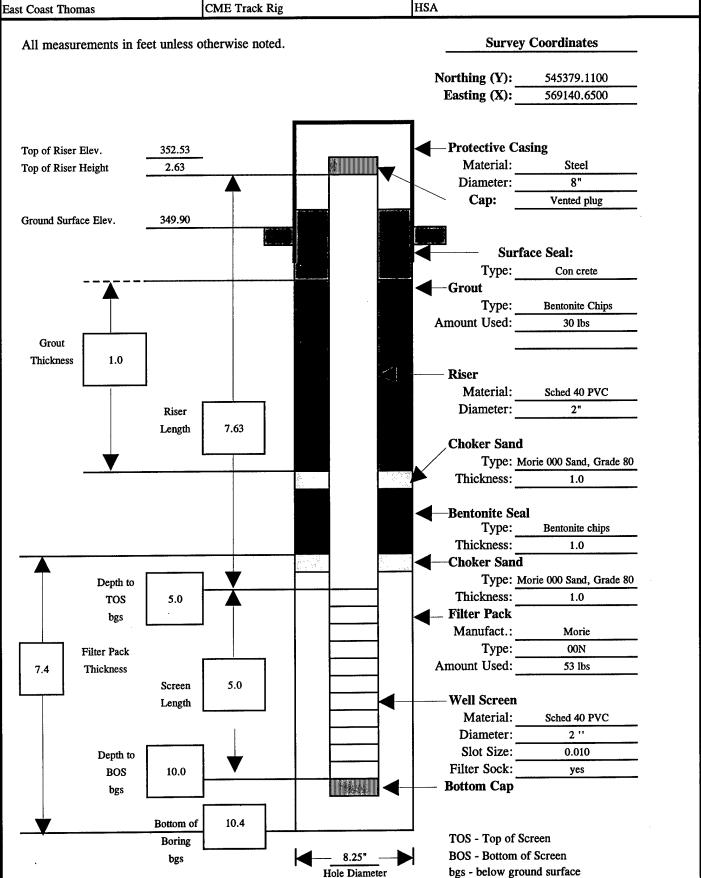
Well/Boring No.: Client/Project/Contract No.: MW-06 ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

**Date/Time Started** Logged By: 10/31/95 1530 M.Plumb/J.Donovan

**Date/Time Finished** 11/1/95 900

Drilling Rig Make/Model: **Drilling Contractor:** 

**Drilling Method:** 



**CORPORATION Well Completion Log**  Client/Project/Contract No.:

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

**Date/Time Started** 11/2/95 0900

Date/Time Finished

1730

Well/Boring No.:

11/2/95

MW-07

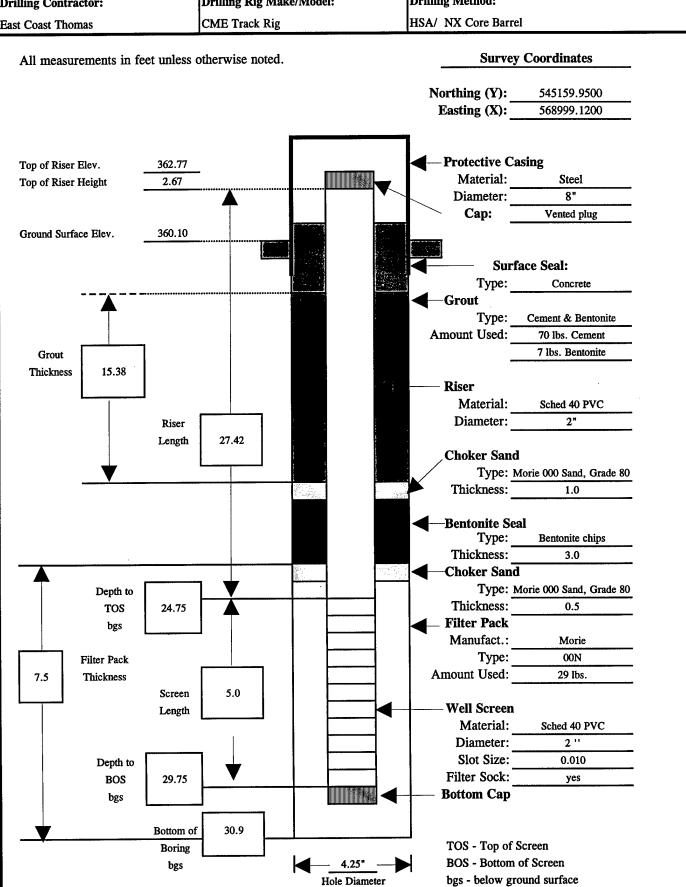
**Drilling Contractor:** 

Drilling Rig Make/Model:

Logged By:

M.Plumb

**Drilling Method:** 



### CORPORATION

Well Completion Log

Well/Boring No.: Client/Project/Contract No.: MW-08 ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

**Date/Time Finished** Date/Time Started Logged By: 11/3/95 1400 11/3/95 M.Plumb/J.Donovan

**Drilling Contractor:** 

Drilling Rig Make/Model:

**Drilling Method:** HSA/ NX Core Barrel East Coast Thomas CME Track Rig All measurements in feet unless otherwise noted. **Survey Coordinates** Northing (Y): 545163.3200 Easting (X): 569006.9500 -Protective Casing 362.14 Top of Riser Elev. Material: Steel 2.74 Top of Riser Height Diameter: Cap: Vented plug Ground Surface Elev. 359.40 **Surface Seal:** Concrete Type: Grout Type: Bentonite chips Amount Used: 6 lbs. Grout Thickness 2.3 Riser Material: Sched 40 PVC Diameter: Riser 14.04 Length Choker Sand Type: Morie 000 Sand, Grade 80 Thickness: -Bentonite Seal Type: Bentonite chips Thickness: 2.0 -Choker Sand Type: Morie 000 Sand, Grade 80 Depth to Thickness: 1.0 TOS 11.3 \_ Filter Pack bgs Manufact.: Morie 00N Type: Filter Pack Amount Used: 57 lbs. 7.5 Thickness 5.0 Screen Well Screen Length Material: Sched 40 PVC Diameter: 2 '' Slot Size: 0.010 Depth to Filter Sock: yes BOS 16.3 **Bottom Cap** bgs Bottom of 16.8 TOS - Top of Screen Boring **BOS** - Bottom of Screen bgs 8.25" Hole Diameter bgs - below ground surface

1630

## **CORPORATION**

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

Client/Project/Contract No.:

**Date/Time Started** 

Well/Boring No.:

MW-09

Logged By: Well Completion Log K.Kutaswki

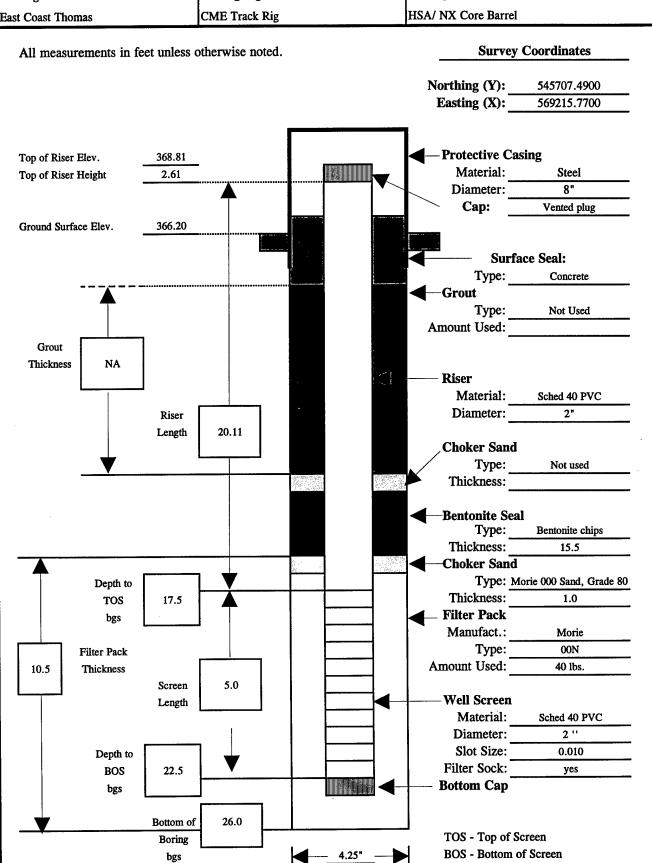
11/7/95 1400

**Date/Time Finished** 11/8/95 0700

**Drilling Contractor:** 

Drilling Rig Make/Model:

**Drilling Method:** 



Hole Diameter

bgs - below ground surface

### **CORPORATION**

Well Completion Log

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

Client/Project/Contract No.:

MW-10

**Date/Time Started** Logged By: 11/7/95 0900 K.Kutaswki

Date/Time Finished 11/8/95 0830

Well/Boring No.:

**Drilling Contractor:** 

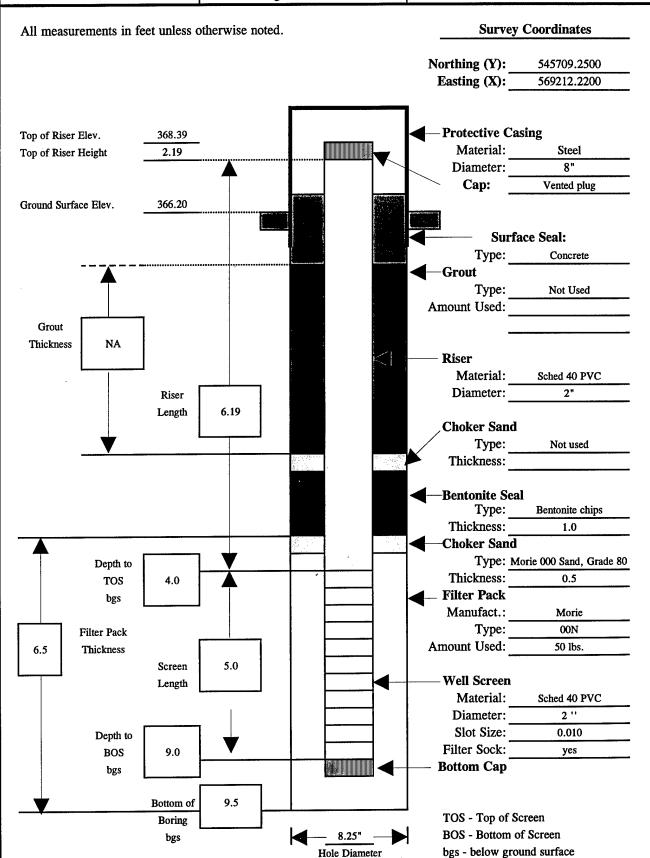
Drilling Rig Make/Model:

Drilling Method:

East Coast Thomas

CME Track Rig

HSA



### Client/Project/Contract No.: **ANEPTEK CORPORATION** Logged By: Well Completion Log 11/9/95 0900 J.Donovan Drilling Rig Make/Model: **Drilling Method: Drilling Contractor:** CME Track Rig HSA/ NX Core Barrel East Coast Thomas All measurements in feet unless otherwise noted. **Northing (Y):** Easting (X): Top of Riser Elev. 388.69 Material: Top of Riser Height 2.79 Diameter: Cap: Ground Surface Elev. 385.90 Type: Grout Type: Amount Used: Grout Thickness NA Riser Material: Diameter: Riser Length 25.49 Choker Sand Type: Thickness: Type: Thickness: Choker Sand Depth to Thickness: TOS 22.7 \_\_ Filter Pack bgs Manufact.: Type: Filter Pack Amount Used: 7.7 Thickness 5.0 Screen Well Screen Length

Well/Boring No.: ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08 MW-11 **Date/Time Started** Date/Time Finished 1630 11/9/95 **Survey Coordinates** 546123.2900 569216.3300 **Protective Casing** Steel 8" Vented plug **Surface Seal:** Concrete Not Used Sched 40 PVC Not used Bentonite Seal Bentonite chips 20.7 Type: Morie 000 Sand, Grade 80 1.7 Morie 00N 30 lbs. Material: Sched 40 PVC Diameter: 2 " Slot Size: 0.010 Filter Sock: yes **Bottom Cap** 28.4 TOS - Top of Screen **BOS** - Bottom of Screen 4.25" bgs - below ground surface Hole Diameter

Depth to

BOS

bgs

27.7

Bottom of

**Boring** 

bgs

**CORPORATION** Well Completion Log

All measurements in feet unless otherwise noted.

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

MW-12

**Date/Time Started** Logged By: 11/9/95 1230 J.Donovan

Client/Project/Contract No.:

**Date/Time Finished** 11/9/95 1630

Well/Boring No.:

**Drilling Contractor:** 

East Coast Thomas

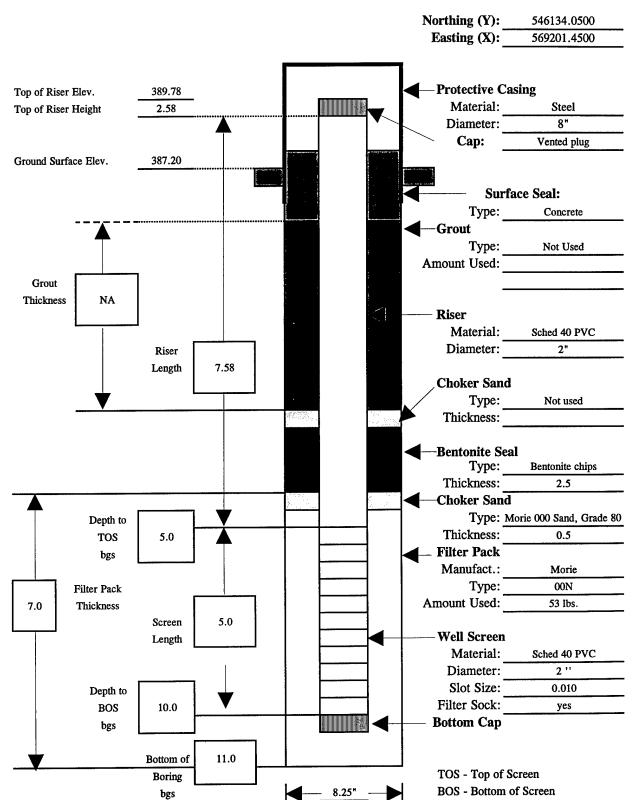
Drilling Rig Make/Model:

CME Track Rig

**Drilling Method:** 

HSA

**Survey Coordinates** 



Hole Diameter

bgs - below ground surface

## **CORPORATION**

Well Completion Log

Client/Project/Contract No.:

ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

MW-14

Logged By: **Date/Time Started** 

J.Donovan/C. Devonshire 7/22/96 1610 **Date/Time Finished** 7/26/96

1200

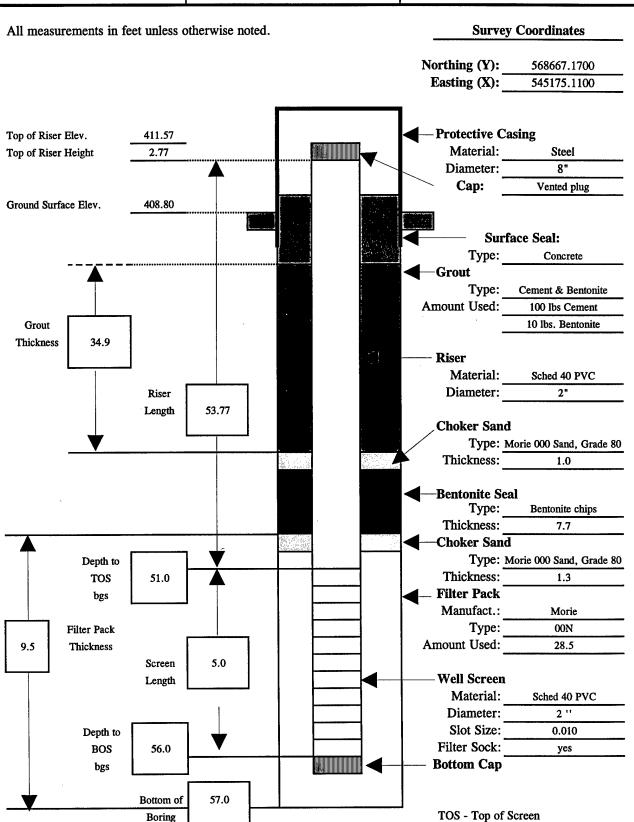
Well/Boring No.:

**Drilling Contractor:** East Coast Thomas

Drilling Rig Make/Model:

**Drilling Method:** 

**CME 75** HSA/ NX Core Barrel



4.25"

Hole Diameter

**BOS** - Bottom of Screen

bgs - below ground surface

bgs

Drilling Contractor:

### **ANEPTEK**

### **CORPORATION**

**Well Completion Log** 

Client/Project/Contract No.: ANG /Stewart ANGB Site 1/DAHA-90-93-D-003/DO-08

**Date/Time Started** Logged By:

**Date/Time Finished** 

1015

7/30/96

MW-15

Well/Boring No.:

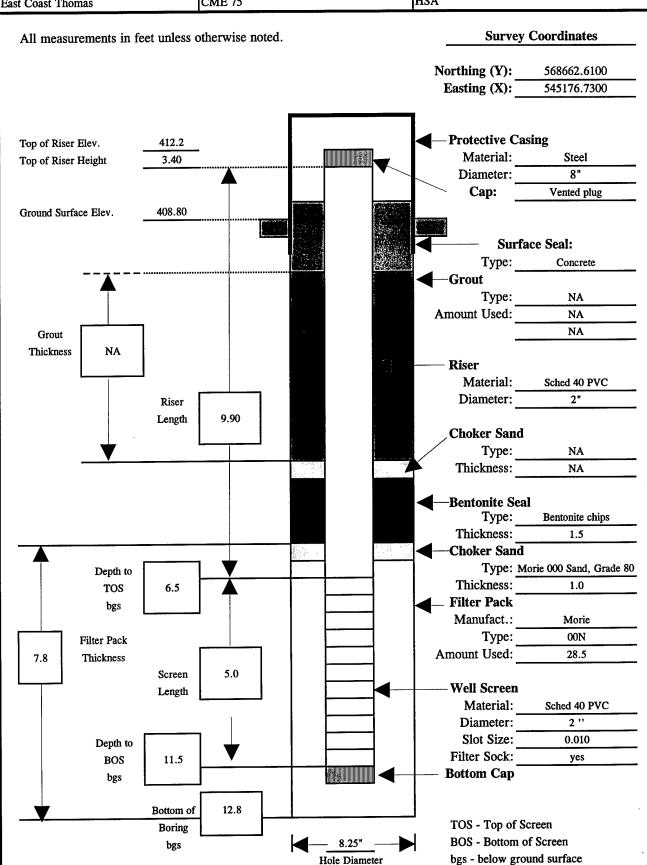
Drilling Method: Drilling Rig Make/Model:

J.Donovan/C. Devonshire

East Coast Thomas

**CME 75** 

7/29/96 1200



# APPENDIX F WATER LEVEL DATA AND CALCULATIONS

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### APPENDIX F, TABLE F-1 GROUNDWATER ELEVATIONS - DECEMBER 8, 1995 STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

		Reference		
		Point	Depth to	Groundwater
Well/Piezometer	Reference	Elevation	Groundwater <sup>1</sup>	Elevation
Designation	Point	(ft msl)	(ft)	(ft msl)
MW-01	Top of Riser	438.49	31.68	406.81
MW-04	Top of Riser	436.29	30.40	405.89
MW-05	Top of Riser	352.28	3.11	349.17
MW-06	Top of Riser	352.53	4.18	348.35
MW-07	Top of Riser	362.77	7.77	355.00
MW-08	Top of Riser	362.14	8.60	353.54
MW-09	Top of Riser	368.81	11.17	357.64
MW-10	Top of Riser	368.39	4.95	363.44
MW-11	Top of Riser	388.69	16.74	371.95
MW-12	Top of Riser	389.78	6.28	383.50
MW-13	Top of Riser	435.32	12.20	423.12
SW-2	Top Casing	435.58	24.65	410.93
SW-3	Top Casing	434.19	23.43	410.76
JMW-107	Top of Riser	367.04	NM	- NM
JMW-108	Top Casing	370.70		367.73
JMW-109	Top of Riser	374.15	3.70	370.45
JTB-100 (a)	Top of Riser	436.00	11.61	424.39
JTB-100 (b)	Top of Riser	436.24	28.51	407.73
JTB-103(a)	Top Casing	435.53	20.78	414.75
JTB-103 (b)	Top Casing	435.53	24.14	411.39
JTB-105 (a)	Top Casing	394.43	NM	NM
JTB-105 (b)	Top Casing	394.43	NM	NM
JTB-105 (c)	Top Casing	394.43	NM	NM
JTB-106 (a)	Top Casing	389.85	15.47	374.38
JTB-106 (b)	Top Casing	389.85	15.04	374.81
JTB-107 (a)	Top Casing	367.92	6.78	361.14
JTB-107 (b)	Top Casing	367.92	6.75	- 361.17
JTB-108 (a)	Top Casing	370.31	NM	. NM
JTB-108 (b)	Top Casing	370.31	NM	NM
JTB-109 (a)	Top Casing	373.96		369.76
JTB-109 (b)	Top Casing	373.96		
SG-01	3 ft Mark	392.22		390.31
SG-02	3 ft Mark	337.11		334.95
SG-03	6 ft Mark	336.14		
SG-04	6 ft Mark	336.22		
SG-06	3 ft Mark	332.36		331.25

Notes: 1 Readings for stream gages are direct readings and are evaluated with respect to the elevations of the appropriate foot marks on the gage.

ft - feet

NM - Not Measured

### APPENDIX F, TABLE F-2 GROUNDWATER ELEVATIONS - MARCH 19, 1996 STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

		Reference		
		Point	Depth to	Groundwater
Well/Piezometer	Reference	Elevation	Groundwater <sup>1</sup>	Elevation
Designation	Point	(ft msl)	(ft)	(ft msl)
MW-01	Top of Riser	438.49	31.10	407.39
MW-04	Top of Riser	436.29	29.96	406.33
MW-05	Top of Riser	352.28	1.89	350.39
MW-06	Top of Riser	352.53	3.37	349.16
MW-07	Top of Riser	362.77	5.80	356.97
MW-08	Top of Riser	362.14	6.44	355.70
MW-09	Top of Riser	368.81	7.72	361.09
MW-10	Top of Riser	368.39	2.93	365.46
MW-11	Top of Riser	388.69	14.18	374.51
MW-12	Top of Riser	389.78	3.52	386.26
MW-13	Top of Riser	435.32	11.38	423.94
SW-2	Top Casing	435.58	23.59	411.99
SW-3	Top Casing	434.19	22.55	411.64
JMW-107	Top of Riser	367.04	NM	NM
JMW-108	Top Casing	370.70	2.08	368.62
JMW-109	Top of Riser	374.15	2.78	371.37
JTB-100 (a)	Top of Riser	436.00	NM	· NM
JTB-100 (b)	Top of Riser	436.24	NM	NM
JTB-103(a)	Top Casing	435.53	27.30	408.23
JTB-103 (b)	Top Casing	435.53	27.23	408.30
JTB-105 (a)	Top Casing	394.43	NM	NM
JTB-105 (b)	Top Casing	394.43	NM	NM
JTB-105 (c)	Top Casing	394.43	NM	NM
JTB-106 (a)	Top Casing	389.85	11.90	377.95
JTB-106 (b)	Top Casing	389.85	11.75	378.10
JTB-107 (a)	Top Casing	367.92	5.48	362.44
JTB-107 (b)	Top Casing	367.92	4.93	362.99
JTB-108 (a)	Top Casing	370.31	NM	NM
JTB-108 (b)	Top Casing	370.31	NM	NM
JTB-109 (a)	Top Casing	373.96	3.29	370.67
JTB-109 (b)	Top Casing	373.96	3.15	370.81
SG-01	3 ft Mark	392.22	NM	NM
SG-02	3 ft Mark	337.11	NM	NM
SG-03	6 ft Mark	336.14	NM	NM
SG-04	6 ft Mark	336.22	NM	NM.
SG-06	3 ft Mark	332.36	NM	NM_

Notes: 1 Readings for stream gages are direct readings and are evaluated with respect to the elevations of the appropriate foot marks on the gage.

ft - feet

NM - Not Available

### APPENDIX F, TABLE F-3 GROUNDWATER ELEVATIONS - APRIL 9, 1996 STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

.		Reference		
		Point	Depth to	Groundwater
Well/Piezometer	Reference	Elevation	Groundwater <sup>1</sup>	Elevation
Designation	Point	(ft msl)	(ft)	(ft msl)
MW-01	Top of Riser	438.49	31.12	407.37
MW-01 MW-04	Top of Riser	436.29	29.99	406.30
MW-05	Top of Riser	352.28	2.04	350.24
MW-06	Top of Riser	352.53	3.74	348.79
MW-07	Top of Riser	362.77	6.07	356.70
MW-07 MW-08	Top of Riser	362.14	6 96	355.28
	Top of Riser	368.81	8.29	360.52
MW-09	Top of Riser	368.39	2 90	364.59
MW-10	Top of Riser	388.69	14.60	374.09
MW-11		389.78	3.15	386.63
MW-12	Top of Riser	435.32	11.65	423.67
MW-13	Top of Riser		24.16	411.42
SW-2	Top Casing	435.58	22.71	411.48
SW-3	Top Casing	434.19	4.27	362.77
JMW-107	Top of Riser	367.04		368.46
JMW-108	Top Casing	370.70	2.24	371.33
JMW-109	Top of Riser	374.15	2.82	
JTB-100 (a)	Top of Riser	436.00	9.33	426.67
JTB-100 (b)	Top of Riser	436.24	28.71	407.53
JTB-103(a)	Top Casing	435.53		407.12
JTB-103 (b)	Top Casing	435.53	28.06	407.47
JTB-105 (a)	Top Casing	394.43	13.68	380.75
JTB-105 (b)	Top Casing	394.43	13.46	380.97
JTB-105 (c)	Top Casing	394.43	9.67	384.76
JTB-106 (a)	Top Casing	389.85	12.84	377.01
JTB-106 (b) -	Top Casing	389.85		377.36
JTB-107 (a)	Top Casing	367.92	5.98	361.94
JTB-107 (b)	Top Casing	367.92	5.96	361.96
JTB-108 (a)	Top Casing	370.31	4.44	365.87
JTB-108 (b)	Top Casing	370.31	4.62	365.69
JTB-109 (a)	Top Casing	373.96		
JTB-109 (b)	Top Casing	373.96		371.09
SG-01	3 ft Mark	392.22		390.83
SG-02	3 ft Mark	337.11	0.94	335.05
SG-03	6 ft Mark	336.14		333.84
SG-04	6 ft Mark	336.22		334.29
SG-06	3 ft Mark	332.36	3.21	332.57

Notes: <sup>1</sup> Readings for stream gages are direct readings and are evaluated with respect to the elevations of the appropriate foot marks on the gage.

ft - feet

NM - Not Measured

# APPENDIX F, TABLE F-4 GROUNDWATER ELEVATIONS - AUGUST 15, 1996 STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

		Reference		
		Point	Depth to	Groundwater
Well/Piezometer	Reference	Elevation	Groundwater <sup>1</sup>	Elevation
Designation	Point	(ft msl)	(ft)	(ft msl)
MW-01	Top of Riser	438.49	30.73	407.76
MW-04	Top of Riser	436.29	29.93	406.36
MW-05	Top of Riser	352.28	4.20	348.08
MW-06	Top of Riser	352.53	6.28	346.25
MW-07	Top of Riser	362.77	8.57	354.20
MW-08	Top of Riser	362.14	9.90	352.24
MW-09	Top of Riser	368.81	10.80	358.01
MW-10	Top of Riser	368.39	6.20	362.19
MW-11	Top of Riser	388.69	19.19	369.50
MW-12	Top of Riser	389.78	7.76	382.02
MW-13	Top of Riser	435.32	12.75	422.57
MW-14	Top of Riser	411.57	29.03	382.54
MW-15	Top of Riser	412.20	14.14	398.06
SW-2	Top Casing	435.58	24.45	411.13
SW-3	Top Casing	434.19	23.45	410.74
JMW-107	Top of Riser	367.04	5.64	361.40
JMW-108	Top Casing	370.70	3.38	367.32
JMW-109	Top of Riser	374.15	5.90	368.25
JTB-100 (a)	Top of Riser	436.00	NM	NM
JTB-100 (b)	Top of Riser	436.24	NM	NM
JTB-103(a)	Top Casing	435.53	28.38	407.15
JTB-103 (b)	Top Casing	435.53	28.48	407.05
JTB-105 (a)	Top Casing	394.43	15.54	378.89
JTB-105 (b)	Top Casing	394.43	15.32	379.11
JTB-105 (c)	Top Casing	394.43	11.39	383.04
JTB-106 (a)	Top Casing	389.85	16.91	372.94
JTB-106 (b)	Top Casing	389.85	16.65	373.20
JTB-107 (a)	Top Casing	367.92	7.40	360.52
JTB-107 (b)	Top Casing	367.92	7.39	360.53
JTB-108 (a)	Top Casing	370.31	5.39	364.92
JTB-108 (b)	Top Casing	370.31	5.50	364.81
JTB-109 (a)	Top Casing	373.96	5.91	368.05
JTB-109 (b)	Top Casing	373.96	5.61	368.35
SG-01	3 ft Mark	392.22	0.94	390.16
SG-02	3 ft Mark	337.11	0.89	335.00
SG-03	6 ft Mark	336.14	3.74	333.88
SG-04	6 ft Mark	336.22	NM	NM
SG-06	3 ft Mark	332.36	2.55	331.91

Notes: <sup>1</sup> Readings for stream gages are direct readings and are evaluated with respect to the elevations of the appropriate foot marks on the gage.

ft - feet

NM - Not Measured

# APPENDIX F, TABLE F-5 CALCULATED DECEMBER 8, 1995 WATER TABLE ELEVATIONS STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

					Calculated
	Completion	Elevation	Total	Pressure	Water Table
Well	Interval	Head (Z)	Head	Head (P)	Elevation
Pair		(ft msl)	(ft msl)	(ft)	(ft msl)
MW-05	BR	317.40	349.17	31.77	348.08
MW-06	OB	340.40	348.35	7.95	
MW-07	BR	332.85	355.00	22.15	352.72
MW-08	OB	345.60	353.54	7.94	
MW-09	BR	346.20	357.64	11.44	366.26
MW-10	OB	359.70	363.44	3.74	
MW-11	BR	360.70	371.95	11.25	389.39
MW-12	OB	379.70	383.50	3.80	
MW-04	BR	380.70	405.89	25.19	411.79
JTB-100(b)	OB	390.40	407.73	17.33	
JTB-103(a)	BR	382.30	414.75	32.45	406.21
JTB-103(b)	OB	391.70	411.39	19.69	
JTB-106(a)	BR	360.00	374.38	14.38	375.10
JTB-106(b)	OB	369.00	374.81	5.81	
		1 247 65		10.51	251.15
JTB-107(a)	BR	347.80	361.14	13.34	361.18
JTB-107(b)	OB	358.20	361.17	2.97	
JTB-109(a)	BR	353.30	369.76		<del></del>
JTB-109(b)	OB	362.90	370.27	7.37	
					1

### Notes:

Calculated water table elevation is based on the following equation:

$$H_{wt} = Z_s - [((Z_s - Z_d)/(P_s - P_d))] \times P_s$$

Where:

Hwt - Calculated Water Table Elevation

 $Z_{s,d}$  - Elevation Head in the shallow or deep well  $P_{s,d}$  - Elevation Head in the shallow or deep well

Key:

BR - Bedrock

ft - feet

OB - Overburden

msl - mean sea level

### APPENDIX F, TABLE F-6 CALCULATED APRIL 9, 1996 WATER TABLE ELEVATIONS STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

					Calculated
	Completion	Elevation	Total	Pressure	Water Table
Well	Interval	Head (Z)	Head	Head (P)	Elevation
Pair		(ft msl)	(ft msl)	(ft)	(ft msl)
MW-05	BR	317.40	350.24	32.84	348.29
MW-06	OB	340.40	348.79	8.39	
MW-07	BR	332.85	356.70	23.85	354.31
MW-08	OB	345.60	355.28	9.68	
MW-09	BR	346.20	360.52	14.32	366.70
MW-10	OB	359.70	364.59	4.89	
MW-11	BR	360.70	374.09	13.39	400.08
MW-12*	OB	379.70	386.63	6.93	
MW-04	BR	380.70	406.30	25.60	410.02
JTB-100(b)	OB	390.40	407.53	17.13	
JTB-103(a)	BR	382.30	407.12	24.82	408.08
JTB-103(b)	OB	391.70	407.47	15.77	
JTB-105(b)	OB	367.70	380.97	13.27	390.62
JTB-105(c)	OB	376.70	384.76	8.06	
JTB-106(a)	BR	360.00	377.01	17.01	377.70
JTB-106(b)	OB	369.00	377.36	8.36	
JTB-107(a)	BR	347.80	361.94	14.14	361.97
JTB-107(b)	OB	358.20	361.96	3.76	
JTB-108(a)	BR	346.80	365.87	19.07	365.50
JTB-108(b)	OB	355.80	365.69	9.89	
JTB-109(a)	BR	353.30	370.81	17.51	371.34
JTB-109(b)	OB	362.90	371.09	8.19	

### Notes

Calculated water table elevation is based on the following equation:

 $H_{wt} = Z_s - [((Z_s - Z_d)/(P_s - P_d))] \times P_s$ 

Where:

Hwt - Calculated Water Table Elevation

 $Z_{s,d}$  - Elevation Head in the shallow or deep well

 $P_{s,d}$  - Elevation Head in the shallow or deep well

Key:

BR - Bedrock

ft - feet

OB - Overburden

msl - mean sea level

### APPENDIX F, TABLE F-7 CALCULATED AUGUST 15, 1996 WATER TABLE ELEVATIONS STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

		-			Calculated
	Completion	Elevation	Total	Pressure	Water Table
Well	Interval	Head (Z)	Head	Head (P)	Elevation
Pair		(ft msl)	(ft msl)	(ft)	(ft msl)
MW-05	BR	317.40	348.08	30.68	345.82
MW-06	OB	340.40	346.25	5.85	
MW-07	BR	332.85	354.20	21.35	351.36
MW-08	OB	345.60	352.24	6.64	
MW-09	BR	346.20	358.01	11.81	363.31
MW-10	OB	359.70	362.19	2.49	
MW-11	BR	360.70	369.50	8.80	386.50
MW-12*	OB	379.70	382.02	2.32	
MW-04	BR	380.70	406.36	25.66	NM
JTB-100(b)	OB	390.40	NM	-	
JTB-103(a)	BR	382.30	407.15	24.85	406.89
JTB-103(b)	OB	391.70	407.05	15.35	
JTB-105(b)	OB	367.70	379.11	11.41	387.95
JTB-105(c)	OB	376.70	383.04	6.34	
JTB-106(a)	BR	360.00	372.94	12.94	373.32
JTB-106(b)	OB	369.00	373.20	4.20	
JTB-107(a)	BR	347.80	360.52	12.72	360.53
JTB-107(b)	OB	358.20	360.53	2.33	
JTB-108(a)	BR	346.80	364.92	18.12	364.70
JTB-108(b)	OB	355.80	364.81	9.01	
JTB-109(a)	BR	353.30	368.05	14.75	368.53
JTB-109(b)	OB	362.90	368.35	5.45	

### Notes:

Calculated water table elevation is based on the following equation:

 $H_{wt} = Z_s - [((Z_s - Z_d)/(P_s - P_d))] \times P_s$ 

Where:

Hwt - Calculated Water Table Elevation

 $Z_{\text{s,d}}$  - Elevation Head in the shallow or deep well

 $P_{s,d}$  - Elevation Head in the shallow or deep well

Key:

BR - Bedrock

ft - feet

NM - Not Measured

OB - Overburden

msl - mean sea level

### 4/22/97 3:50 PM

### CALCULATIONS OF VERTICAL GRADIENTS AT WELL PAIRS BASED ON WATER ELEVATIONS DATA COLLECTED DECEMBER 8, 1995 STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK APPENDIX F, TABLE F-8

Screen (f. mst)  319.90  317.40  317.40  342.90  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.40  340.4	Elevation	Elevation	,	,
Screen (ft mst) (ft mst)  319.90  342.90  342.90  342.90  342.90  342.90  342.90  342.90  342.90  342.90  342.90  342.90  342.90  342.90  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  342.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.00  343.		Center of	Groundwater	Vertical
319.90 317.40 342.90 342.90 342.90 346.40 346.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 362.20 36		Screen	Elevation	Gradient
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342.90 335.35 348.10 348.70 362.20 383.20 383.20 383.20 383.20 381.40 337.20 348.80 339.20 339.20 335.20 335.20 335.20 335.20 335.20			349.17	0.0357
335.35 348.10 362.20 362.20 382.20 382.20 382.20 383.20 383.20 383.20 383.20 387.20 347.70 348.80 348.80 359.20 359.20 359.20 359.20 356.80 356.80 356.80			348.35	
335.35 348.70 362.20 362.20 382.20 383.20 383.20 392.70 361.00 377.70 348.80 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20				
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362.20 363.20 382.20 382.20 383.20 391.40 377.20 361.00 370.00 370.00 335.20 335.20 335.20 335.20 335.20 335.20 335.20			357.64	-0.4296
363.20 382.20 426.10 426.10 383.20 391.40 357.20 361.00 341.00 348.80 339.20 339.20 339.20 339.20 339.20 339.20 339.20 339.20			363.44	
363.20 382.20 426.10 426.10 383.20 392.70 367.20 367.00 370.00 377.70 347.80 359.20 359.20 359.20 359.20 359.20 359.20 359.20 359.20				
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383.30 392.70 357.20 361.00 370.00 348.80 339.20 339.72 335.20 335.13 334.80 335.13			407.73	
392.70 357.20 368.70 377.70 348.80 339.20 339.72 347.80 356.80 356.80 356.80			36 717	7230
352.70 368.70 368.70 377.70 377.70 379.00 359.20 359.72 356.80 354.30			414.73	4/55.0
347.20 368.70 377.70 361.00 370.00 359.20 359.72 347.80 356.80 354.30			411.39	
368.70 377.70 361.00 370.00 339.20 359.72 347.80 356.80 354.30			MM	MN
377.70 361.00 370.00 359.20 359.72 347.80 356.80 354.30			NM	NM
361.00 370.00 348.80 339.20 359.72 347.80 356.80 354.30			NM	
370.00 348.80 339.20 359.72 347.80 356.80 362.13			374.38	-0.0478
348.80 359.20 359.72 347.80 356.80 362.13			374.81	
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347.80 356.80 362.13 354.30			MN	14141
347.80 356.80 362.13 354.30				Yux
350.80 362.13 354.30			WN	WN
364.30 354.30			WX	WZ
354.30			NW.	
252 00			369.76	-0.0531
OC. COC	JTB-109 (b) 36	363.90 362.90	370.27	MM
			MN	

Notes: I by convention a positive gradient indicates a vertically upward gradient, and a negative gradient indicates vertically downward gradient.

2 - Water level in JTB-100a does not appear to be representative of formation conditions, therefore the gradient calculation was based on comparison with nearby MW-04.

NM - Not Measured

ft - feet

msl - mean sea level

## BASED ON WATER ELEVATIONS DATA COLLECTED MARCH 19, 1996 STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK APPENDIX F, TABLE F-9 CALCULATIONS OF VERTICAL GRADIENTS AT WELL PAIRS

		(f ms1) (ft/ft)		350.39 0.0535	349.16	356.97 0.0996	355.70	361.09		3/4.51	380.20	411.99	423.94	406 33		N. W.	408.23 -0.0074	408.30		AND AND AND AND AND AND AND AND AND AND			377.95	378.10	362.44		MN	NN N	WN		0.0	3/0.8I
Elevation	Center or	Screen (# msl)	1	317.40	340.40	332.85	345.60	346.20	359.70	360.70	3/9./0	388.80	421.10	380 70	0.000	350.40	382.30	391.70	000	07.050	376.70		360.00	369.00	347.80	358.20	357.22	346 80	355.80	359.63	353.30	362.90
Elevation	To do	Screen	1	319.90	342.90	335.35	348.10	348.70	362.20	363.20	382.20	393.80	426.10	383 20	07:00	391.40	383.30	392.70	00	02.120	306.70		361.00	370.00	348.80	359.20	359.72	347 80	356.80	362.13	354.30	363.90
		Well/Piezometer	0	MW-05	WW-06	MW-07	MW-08	60-MW	MW-10	MW-11	MW-12	SW-2	MW-13	NW N	10 10 min	J1B-100 (b)	JTB-103(a)	JTB-103 (b)		J I B-105 (a)	J1B-105 (0)	(4) (5) (7)	JTB-106 (a)	JTB-106 (b)	JTB-107 (a)	JTB-107 (b)	JMW-107	(4) 901 (01)	JTB-108 (h)	JMW-108	JTB-109 (a)	JTB-109 (b)

Notes: 1 By convention a positive gradient indicates a vertically upward gradient, and a negative gradient indicates vertically downward gradient.

msl - mean sea level NM - Water levels not measured.

### 4/22/97 3:52 PM

## APPENDIX F, TABLE F-10 CALCULATIONS OF VERTICAL GRADIENT AT WELL PAIRS BASED ON WATER ELEVATION DATA COLLECTED APRIL 9, 1996 STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

Well/Piezometer	Elevation Top of Screen	Elevation Center of Screen	Groundwater Elevation	Vertical Gradient
_	(ft msl)	(ft msl)	(ft msl)	(ft/ft)
	319.90	317.40 340.40	350.24	0.0630
	335.35 348.10	332.85 345.60	356.70 355.28	0.1114
	348.70 362.20	346.20 359.70	360.52 364.59	-0.3015
	363.20 382.20	360.70 379.70	374.09	0099'0-
	393.80	388.80	411.42	-0.3513
MW-04 JTB-100 (b)	383.20 391.40	380.70	406.30	-0.1268 <sup>2</sup>
JTB-103(a) JTB-103 (b)	383.30 392.70	382.30 391.70	407.12	-0.0372
TTB-105 (a) TTB-105 (b) TTB-105 (c)	357.20 368.70 377.70	356.20 367.70 376.70	380.75 380.97 384.76	-0.0191
JTB-106 (a) JTB-106 (b)	361.00	360.00	377.01 377.36	-0.0389
JTB-107 (a) JTB-107 (b) JMW-107	348.80 359.20 359.72	347.80 358.20 357.22	361.94 361.96 362.77	-0.0019 -0.8265
JTB-108 (a) JTB-108 (b) JMW-108	347.80 356.80 362.13	346.80 355.80 359.63	365.87 365.69 368.46	0.0200
JTB-109 (a) JTB-109 (b) JMW-109	354.30 363.90 366.55	353.30 362.90 364.05	370.81 371.09 371.33	-0.0292 -0.2087
:				

ft - feet msl - mean sea level

Notes: 1 By convention a positive gradient indicates a vertically upward gradient, and a negative gradient indicates vertically downward gradient.

- Water level in JTB-100a does not appear to be representative of formation conditions, therefore the gradient calculation was based on nearby MW-04.

### 4/22/97 3:53 PM

## APPENDIX F, TABLE F-11 CALCULATIONS OF VERTICAL GRADIENT AT WELL PAIRS BASED ON WATER ELEVATION DATA COLLECTED AUGUST 15, 1996 STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

Well/Piezometer Designation	Elevation Top of Screen (ft msl)	Elevation Center of Screen (ft msl)	Groundwater Elevation (ft msl)	Vertical Gradient (ft/ft)
MW-05 MW-06	319.90	317.40	348.08	0.0796
MW-07 MW-08	335.35 348.10	332.85 345.60	354.20 352.24	0.1537
MW-09 MW-10	348.70 362.20	346.20 359.70	358.01 362.19	-0.3096
MW-11 MW-12	363.20	360.70 379.70	369.50 382.02	-0.6589
SW-2 MW-13	393.80	388.80	411.13	-0.3388
MW-14 MW-15	358.30 402.30	355.80 399.80	382.54 398.06	-0.3673
MW-04 TTB-100 (b)	383.20 391.40	380.70 390.40	406.36 NM	NM
JTB-103(a) JTB-103 (b)	383.30 392.70	382.30 391.70	407.15	0.0106
JTB-105 (a) JTB-105 (b) JTB-105 (c)	357.20 368.70 377.70	356.20 367.70 376.70	378.89 379.11 383.04	-0.0191 -0.4367
TTB-106 (a) TTB-106 (b)	361.00	360.00 369.00	372.9 <del>4</del> 373.20	-0.0289
JTB-107 (a) JTB-107 (b) JMW-107	348.80 359.20 359.72	347.80 358.20 357.22	360.52 360.53 361.40	-0.0010
JTB-108 (a) JTB-108 (b) JMW-108	347.80 356.80 362.13	346.80 355.80 359.63	364.92 364.81 367.32	0.0122
JTB-109 (a) JTB-109 (b)	354.30	353.30	368.05	-0.0313 0.0870
JMW-109	366.33	364.05	308.23	

Notes: <sup>1</sup> By convention a positive gradient indicates a vertically upward gradient, and a negative gradient indicates vertically downward gradient.

ft - feet

msl - mean sea level NM - Not Measured

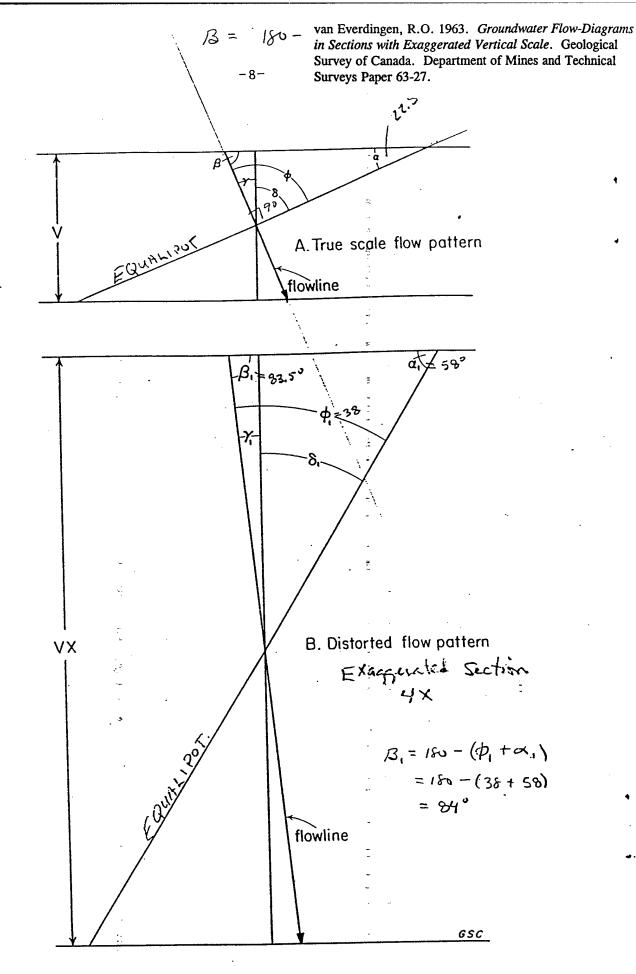


Figure 1. Relation of flowlines and equipotential lines in true-scale and distorted flow patterns

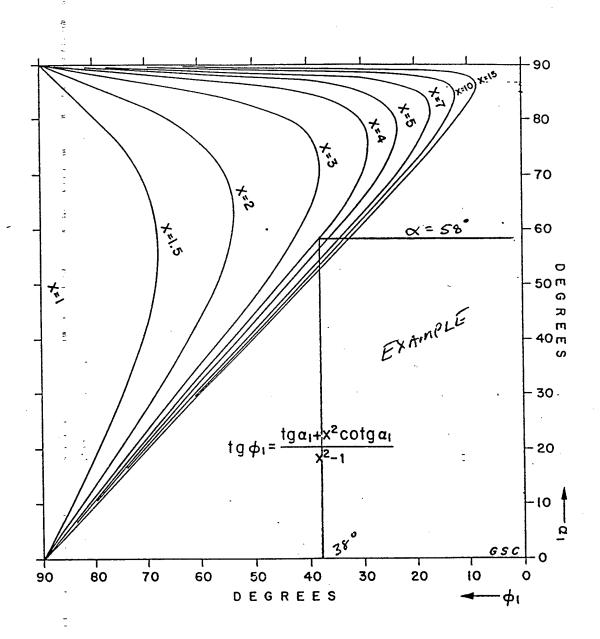


Figure 2. Nomograph for the determination of  $\phi_1$  from  $\alpha_1$  and X

### APPENDIX G AQUIFER TESTING RESULTS

### APPENDIX TABLE 1

## ANEPTEK OVERBURDEN WELL SLUG TEST INPUT DATA

WELL GROUND SURFACE ELEVATION (MSL.) REFERENCE ELEVATION - TOP OF RISER (MSL.) DEPTH TO STATIC WATER LEVEL - TOR (FT.)						CT- AA TAT
WELL GROUND SURFACE ELEVATION (MSL.) REFERENCE ELEVATION - TOP OF RISER (MSL.) DEPTH TO STATIC WATER LEVEL - TOR (FT.)						
REFERENCE ELEVATION - TOP OF RISER (MSL)  DEPTH TO STATIC WATER LEVEL - TOR (FT)		349.9	359.4	366.2	387.2	433.1
DEPTH TO STATIC WATER LEVEL - TOR (FT)	÷	352.53	362.14	368.39	389.78	435.32
THE TAX TO LEGISLATION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P		4.04	8.32	1.44	5.85	11.88
DEPTH TO STATIC WATER LEVEL - GROUND SURFACE (F1)		1.41	5.58	-0.75	3.27	99.6
FI EVATION OF STATIC WATER LEVEL (MSL)		348.49	353.82	366.95	383.93	423.44
DEPTH TO TOP OF SCREEN FROM GROUND SURFACE (FT)		5	11.3	4	5	7
DEPTH TO BOTTOM OF SCREEN FROM GROUND SURFACE (FT)		10	16.3	6	10	17
ET EVATION OF TOP OF SCREEN (MSL)		344.9	348.1	362.2	382.2	426.1
ELEVATION OF BOTTOM OF SCREEN (MSL)		339.9	343.1	357.2	377.2	416.1
DEPTH TO BEDROCK (FT)		24.5	16	10.3	18	37.5
ET EVATION OF BEDROCK (MSL.)		325.4	343.4	355.9	369.2	395.6
AOTHER SATURATED THICKNESS (FT)	Н	23.09	10.42	11.05	14.73	27.84
DEPTH TO TOP OF SCREEN RELATIVE TO TOP OF AOUIFER (FT)		3.59	5.72	4.75	1.73	-2.66
		8.59	10.72	9.75	6.73	7.34
	Le	5	5	5	5	10
I ENGTH OF SATURATED WELL SCREEN (FT)		5	5	5	5	7.34
I ENGTH OF SATURATED RISER (FT)		3.59	5.72	4.75	1.73	0
EEN AND RISER (FT)	Lw	8.59	10.72	9.75	6.73	7.34
	2rc	0.166	0.166	0.166	0.166	0.166
Œ	2rw	289'0	0.687	0.687	0.687	0.687
MRAN GRAIN-SIZE FILTER PACK (mm),		65.0	0.59	0.59	0.59	0.59
POROSITY OF FILTER PACK (%)		6.0	0.3	0.3	0.3	0.3

### APPENDIX TABLE 2

## ANEPTEK BEDROCK WELL SLUG TEST INPUT DATA

WELL NUMBER	INPUT VARIABLE	MW-01	MW-04	MW-05	MW-07	MW-09	MW-11
WELL GROUND SURFACE ELEVATION (MSL)		436.4	434.2	349.9	360.1	366.2	385.9
REFERENCE ELEVATION - TOP OF RISER (MSL)		438.49	436.29	352.28	362.77	368.81	388.69
DEPTH TO STATIC WATER LEVEL - TOR (FT)		31.87	30.37	3.02	7.56	10.91	16.29
DEPTH TO STATIC WATER LEVEL - GROUND SURFACE (FT)		29.78	28.28	0.64	4.89	8.3	13.5
ı		406.62	405.92	349.26	355.21	357.9	372.4
DEPTH TO TOP OF SCREEN FROM GROUND SURFACE (FT)		37	51	30	24.75	17.5	22.7
		42	56	35	29.75	22.5	27.7
H. EVATION OF TOP OF SCREEN (MSL)		399.4	383.2	319.9	335.35	348.7	363.2
FI EVATION OF BOTTOM OF SCREEN (MSL)		394.4	378.2	314.9	330.35	343.7	358.2
DEPTH TO REDROCK (FT)		33	45	21.5	16	10.3	18
HI BYATTON OF REDROCK (MSL.)		403.4	389.2	328.4	344.1	355.9	367.9
DEPTH TO BASE OF FRACTURED ROCK (FT)		55	<i>L</i> 9	43.5	38	32.3	40
FI EVATION OF BASE OF FRACTURED ROCK (MSL)		381.4	367.2	306.4	322.1	333.9	345.9
AOTHER SATURATED THICKNESS (FT)	H	22	22	22	77	22	22
DEPTH TO TOP OF SCREEN RELATIVE TO TOP OF AOUIFER (FT)		4	9	8.5	8.75	7.2	4.7
DEPTH TO BOTTOM OF SCREEN RELATIVE TO TOP OF AQUIFER (FT)		6	11	13.5	13.75	12.2	9.7
	a.	5	5	5	5	5	S
LENGTH OF SATURATED WELL SCREEN (FT)		5	5	5	5	5	5
LENGTH OF SATURATED RISER (FT)		7.22	22.72	29.36	19.86	9.2	9.5
TOTAL LENGTH OF SATURATED WELL SCREEN AND RISER (FT)	Lw	12.22	27.72	34.36	24.86	14.2	14.2
	2rc	0.166	0.166	0.166	0.166	0.166	0.166
DIAMETER OF BOREHOLE (FT)	2rw	0.33	0.33	0.33	0.33	0.33	0.33
MEAN GRAIN-SIZE FILTER PACK (mm)	1 1	65.0	65'0	0.59	0.59	0.59	0.59
POROSITY OF FILTER PACK (%)		0.3	0.3	0.3	0.3	0.3	0.3

### APPENDIX TABLE 3

# E.C. JORDAN OVERBURDEN WELL SLUG TEST INPUT DATA

WELL NUMBER	INPUT	JMW-107	JMW-108	JMW-109
WELL GROUND SURFACE ELEVATION (MSL)		364.1	368.1	371.8
REFERENCE ELEVATION - TOP OF RISER (MSL)	H BH FFFF	367:04	370.7	374.15
DEPTH TO STATIC WATER LEVEL - TOR (FT)		10.13	8.38	9.91
DEPTH TO STATIC WATER LEVEL - GROUND SURFACE (FT)		7.19	5.78	7.56
ELEVATION OF STATIC WATER LEVEL (MSL)		356.91	362.32	364.24
DEPTH TO TOP OF SCREEN FROM GROUND SURFACE (FT)		4.38	5.97	5.25
DEPTH TO BOTTOM OF SCREEN FROM GROUND SURFACE (FT)		9:38	10.97	10.25
FI.EVATION OF TOP OF SCREEN (MSL)		359.72	362.13	366.55
ELEVATION OF BOTTOM OF SCREEN (MSL)		354.72	357.13	361.55
DEPTH TO BEDROCK (FT)		9.4	12.8	10.4
ELEVATION OF BEDROCK (MSL)		354.7	355.3	361.4
AOUIFER SATURATED THICKNESS (FT)	H	2.21	7.02	2.84
DEPTH TO TOP OF SCREEN RELATIVE TO TOP OF AQUIFER (FT)		-2.81	0.19	-2.31
DEPTH TO BOTTOM OF SCREEN RELATIVE TO TOP OF AQUIFER (FT)		2.19	5.19	2.69
LENGTH OF WELL SCREEN	Le	5	5	5
LENGTH OF SATURATED WELL SCREEN (FT)		2.19	5	2.69
LENGTH OF SATURATED RISER (FT)		0	0.19	0
LENGTH OF SATURATED WELL SCREEN AND RISER (FT)	Lw	2.19	5.19	2.69
DIAMETER OF SCREEN (FT)	2rċ	0.166	0.166	0.166
DIAMETER OF BOREHOLE (FT)	2rw	99.0	0.66	99.0
MEAN GRAIN-SIZE FILTER PACK (mm)		0.59	0.59	0.59
POROSITY OF FILTER PACK (%)		0.3	0.3	0.3

### STEWART ANG BASE MW-04 Kim Kutawski, Aneptek Corp.

### Results

6.49E-01 ft/day Hydraulic Conductivity: 2.29E-04 cm/sec 2.02E+00 ft Y-Intercept (Yo): Well Screen Ratio (Le/rw): 30.3 Dimensionless Parameter A: 0.00 Dimensionless Parameter B: 0.00 1.827E-01 1/min Slope of Line [ln(Yo/Yt)/t]: 6.972E-04 ft Well Parameters (Rc^2 / 2\*Le): 3.536 Dimensionless Ratio [ln(Re/rw)]: Effective Radius [Re]: 5.67 ft 5.04E+02 ft<sup>3</sup> Volume Tested [rw<Vol<Re]:</pre>

### Well/Aquifer Parameters

Depth of well: 27.72 ft
Length of well screen: 5.00 ft
Saturated thickness: 22.00 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.330 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	2.041	2	0.0084	2.034	3	0.0167	2.034
4	0.0250	2.028	5	0.0334	2.022	6	0.0417	2.022
7	0.0500	2.015	8	0.0584	2.015	9	0.0667	2.009
10	0.0750	2.009	11	0.0834	2.002	12	0.0917	1.996
13	0.1000	1.996	14	0.1084	1.996	15	0.1167	1.990
16	0.1250	1.990	17	0.1334	1.990	18	0.1417	1.977
19	0.1500	1.977	20	0.1584	1.977	21	0.1667	1.977
22	0.1750	1.964	23	0.1834	1.964	24	0.1917	1.964
25	0.2084	1.958	26	0.2250	1.951	27	0.2417	1.945
28	0.2584	1.932	29	0.2750	1.926	30	0.2917	1.926
31	0.3084	1.913	32	0.3250	1.913	33	0.3417	1.906
34	0.3584	1.900	35	0.3750	1.894	36	0.3917	1.894
37	0.4084	1.881	38	0.4250	1.874	39	0.4417	1.842
40	0.4584	1.868	41	0.4750	1.855	42	0.4917	1.849
43	0.5084	1.849	44	0.5250	1.842	45	0.5417	1.836
46	0.5584	1.830	47	0.5750	1.823	48	0.5917	1.817

STEWART ANG BASE

MW-04

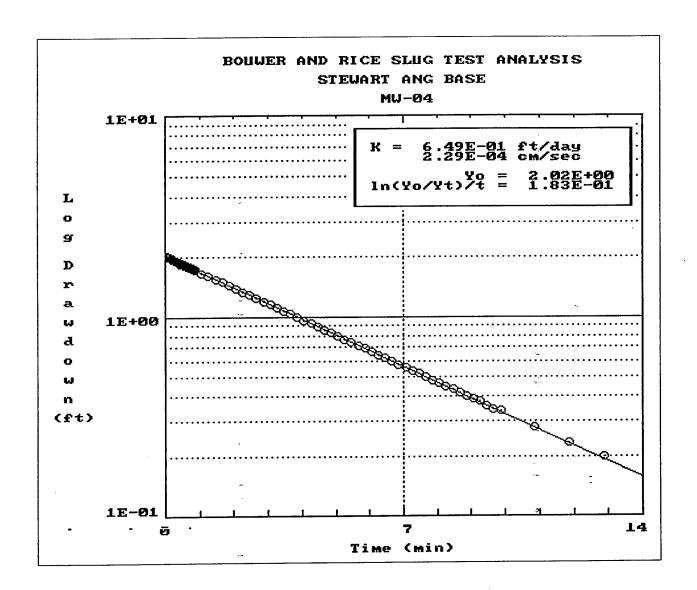
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
49	0.6084	1.810	50	0.6250	1.804	51	0.6417	1.798
52	0.6584	1.798	53	0.6750	1.785	54	0.6917	1.785
55	0.7084	1.778	56	0.7250	1.772	57	0.7417	1.766
58	0.7584	1.759	59	0.7750	1.753	60	0.7917	1.753
61	0.8084	1.746	62	0.8250	1.740	63	0.8417	1.734
64	0.8584	1.727	65	1.0584	1.663	66	1.2584	1.606
67	1.4584	1.542	68	1.6584	1.490	69	1.8584	1.433
70	2.0584	1.382	71	2.2584	1.330	72	2.4584	1.286
73	2.6584	1.234	74	2.8584	1.190	<b>7</b> 5	3.0584	1.151
76	3.2584	1.106	77	3.4584	1.068	78	3.6584	1.030
79	3.8584	0.991	80	4.0584	0.953	81	4.2584	0.921
82	4.4584	0.889	83	4.6584	0.857	84	4.8584	0.825
85	5.0584	0.793	86	5.2584	0.767	87	5.4584	0.742
88	5.6584	0.716	89	5.8584	0.690	90	6.0584	0.665
91	6.2584	0.639	92	6.4584	0.620	93	6.6584	0.594
94	6.8584	0.575	95	7.0584	0.556	96	7.2584	0.537
97	7.4584	0.518	98	7.6584	0.499	99	7.8584	0.479
100	8.0584	0.467	101	8.2584	0.447	102	8.4584	0.435
103	8.6584	0.415	104	8.8584	0.403	105	9.0584	
106	9.2584	0.377	107	9.4584	0.358	108	9.6584	0.345
109	9.8584	0.339	110	10.8584	0.281	111	11.8584	0.236
112	12.8584	0.198						

STEWART ANG BASE

MW-04

Kim Kutawski, Aneptek Corp.



### STEWART ANG BASE MW-04 DUPLICATE Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity:	6.67E-01 2.35E-04	ft/day cm/sec
Y-Intercept (Yo):	2.09E+00	ft
Well Screen Ratio (Le/rw):	30.3	
Dimensionless Parameter A:	0.00	
Dimensionless Parameter B:	0.00	
Slope of Line [ln(Yo/Yt)/t]:	1.877E-01	1/min
Well Parameters (Rc^2 / 2*Le):	6.972E-04	ft
Dimensionless Ratio [ln(Re/rw)]:	3.536	
Effective Radius [Re]:	5.67	ft
<pre>Volume Tested [rw<vol<re]:< pre=""></vol<re]:<></pre>	5.04E+02	ft <sup>3</sup>

### Well/Aquifer Parameters

Depth of well:	27.72	ft
Length of well screen:	5.00	ft
Saturated thickness:	22.00	ft
Diameter of the well casing:	0.167	ft
Diameter of the well filter:	0.330	ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	2.117	2	0.0083	2.098	3	0.0167	2.105
4	0.0250	2.098	5	0.0333	2.085	6	0.0417	2.098
7	0.0500	2.079	8	0.0583	2.085	9	0.0667	2.079
10	0.0750	2.079	11	0.0833	2.079	12	0.0917	2.066
13	0.1000	2.066	14	0.1083	2.073	15	0.1167	2.060
16	0.1250	2.060	17	0.1333	2.053	18	0.1417	2.047
19	0.1500	2.041	20	0.1583	2.034	21	0.1667	2.041
22	0.1750	2.041	23	0.1833	2.028	24	0.1917	2.034
25	0.2000	2.021	26	0.2083	2.028	27	0.2167	2.028
28	0.2250	2.015	29	0.2417	2.009	30	0.2583	2.002
31	0.2750	1.989	32	0.2917	1.996	33	0.3083	1.989
34	0.3250	1.970	35	0.3417	1.977	36	0.3583	1.964
37	0.3750	1.964	38	0.3917	1.951	39	0.4083	1.945
40	0.4250	1.945	41	0.4417	1.932	42	0.4583	1.925
43	0.4750	1.913	44	0.4917	1.913	45	0.5083	1.906
46	0.5250	1.906	47	0.5417	1.887	48	0.5583	1.881
49	0.5750	1.874	50	0.5917	1.874	51	0.6083	1.861

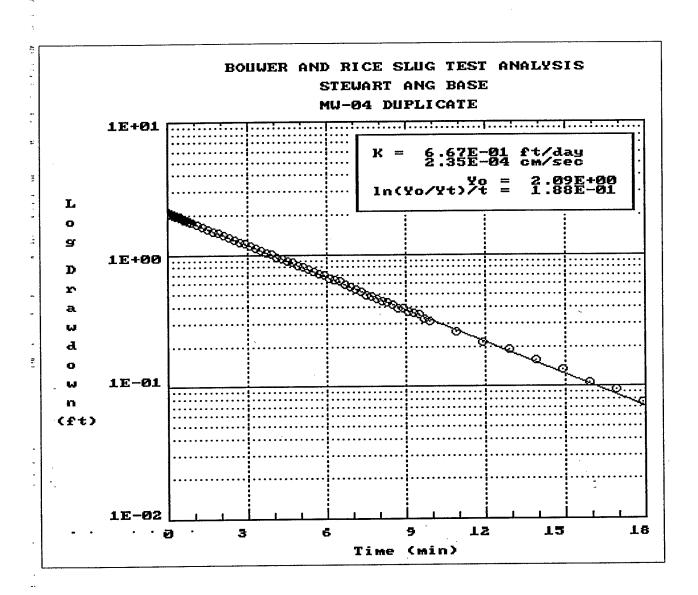
STEWART ANG BASE

MW-04 DUPLICATE

Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
52	0.6250	1.868	<b>53</b> .	0.6417	1.855	54	0.6583	1.842
55	0.6750	1.849	56.	0.6917	1.836	57	0.7083	1.829
58	0.7250	1.823	59	0.7417	1.817	60	0.7583	1.810
61	0.7750	1.810	62-	0.7917	1.804	63	0.8083	1.797
64	0.8250	1.797	65	0.8417	1.785	66	0.8583	1.785
67	0.8750	1.778	68 <sup>±</sup>	0.8917	1.778	69	1.0917	1.708
70	1.2917	1.637	71	1.4917	1.573	72	1.6917	1.509
73	1.8917	1.465	74	2.0917	1.401	75	2.2917	1.350
76	2.4917	1.305	77-	2.6917	1.254	78	2.8917	1.209
79	3.0917	1.170	80	3.2917	1.119	81	3.4917	1.081
82	3.6917	1.036	83	3.8917	1.010	84	4.0917	0.959
85	4.2917	0.927	86 <sup>.:</sup>	4.4917	0.902	87	4.6917	0.870
88	4.8917	0.825	89*	5.0917	0.806	90	5.2917	0.774
91	5.4917	0.742	92	5.6917	0.716	93	5.8917	0.697
94	6.0917	0.658	95.	6.2917	0.646	96	6.4917	0.626
97	6.6917	0.594	98_	6.8917	0.575	99	7.0917	0.550
100	7.2917	0.524	101	7.4917	0.492	102	7.6917	0.486
103	7.8917	0.467	104.	8.0917	0.447	105	8.2917	0.435
106	8.4917	0.415	<b>107</b> ₅	8.6917	0.396	108	8.8917	0.390
109	9.0917	0.371	110	9.2917	0.358	111	9.4917	0.351
112	9.6917	0.326	113	-9.8917	0.313	114	10.8917	
115	11.8917	0.217	116	12.8917	0.191	117	13.8917	
118	14.8917	0.134	119	15.8917	0.108	120	16.8917	0.095
121	17.8917	0.076						

STEWART ANG BASE
MW-04 DUPLICATE
Kim Kutawski, Aneptek Corp.



### STEWART ANG BASE MW-05 Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity:	1.02E-01 3.60E-05	ft/day cm/sec
Y-Intercept (Yo):	2.03E+00	ft
Well Screen Ratio (Le/rw):	30.3	
Dimensionless Parameter A:	0.00	•
Dimensionless Parameter B:	0.00	
Slope of Line [ln(Yo/Yt)/t]:	2.820E-02	1/min
Well Parameters (Rc^2 / 2*Le):	6.889E-04	ft
Dimensionless Ratio [ln(Re/rw)]:	3.648	
Effective Radius [Re]:	6.33	ft
Volume Tested [rw <vol<re]:< td=""><td>6.30E+02</td><td>ft^3</td></vol<re]:<>	6.30E+02	ft^3

### Well/Aquifer Parameters

Depth of well:	34.36	ft
Length of well screen:	5.00	ft
Saturated thickness:	22.00	ft
Diameter of the well casing:	0.166	ft
Diameter of the well filter:	0.330	ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	2.038	2	0.0166	2.031	3	0.0333	2.031
4	0.0500	2.031	5	0.0666	2.031	6	0.0833	2.031
7	0.1000	2.031	8	0.1166	2.025	9	0.1333	2.025
10	0.1500	2.025	11	0.1666	2.025	12	0.1833	2.025
13	0.2000	2.018	14	0.2166	2.018	15	⊕.2333	2.018
16	0.2500	2.018	17	0.2666	2.018	18	0.2833	2.018
19	0.3000	2.012	20	0.3166	2.012	21	0.3333	2.012
22	0.3500	2.012	23	0.3666	2.012	24	0.3833	2.012
25	0.4000	2.006	26	0.4166	2.006	27	0.4333	2.006
28	0.4500	2.006	29	0.6500	1.993	30	0.8500	1.980
31	1.0500	1.967	32	1.2500	1.954	33	1.4500	1.942
34	1.6500	1.935	35	1.8500	1.922	36	2.0500	1.909
37	2.2500	1.897	38	2.4500	1.890	39	2.6500	1.877
40	2.8500	1.865	41	3.0500	1.858	42	3.2500	1.845
43	3.4500	1.833	44	3.6500	1.826	45	3.8500	1.813
46	4.0500	1.801	47	4.2500	1.788	48	4.4500	1.781
49	4.6500	1.768	50	4.8500	1.762	51	5.0500	1.749

STEWART ANG BASE

MW-05

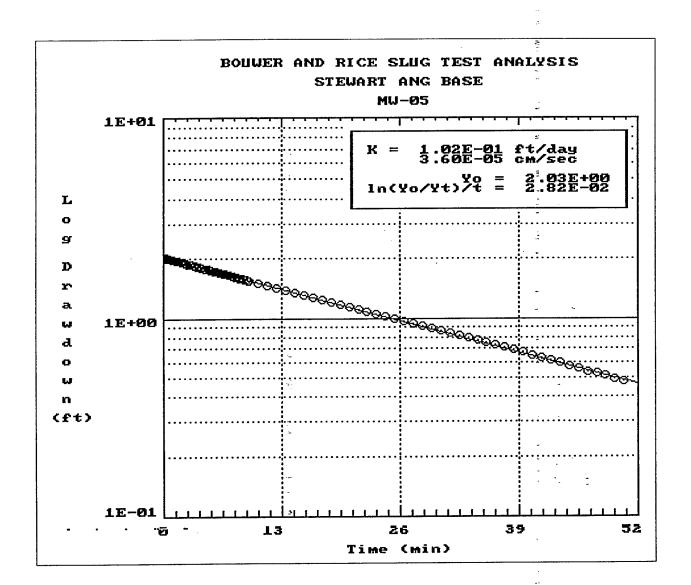
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
52	5.2500	1.743	53	5.4500	1.730	54	5.6500	1.717
55	5.8500	1.711	56	6.0500	1.704	57	6.2500	1.692
58	6.4500	1.679	59	6.6500	1.672	60	6.8500	1.666
61	7.0500	1.653	62	7.2500	1.647	63	7.4500	1.634
64	7.6500	1.627	65	7.8500	1.615	66	8.0500	1.608
67	8.2500	1.595	68	8.4500	1.589	69	8.6500	1.576
70	8.8500	1.570	71	9.0500	1.563	72	9.2500	1.551
73	9.4500	1.544	74	10.4500	1.506	75	11.4500	1.461
76	12.4500	1.422	77	13.4500	1.384	78	14.4500	1.345
79	15.4500	1.313	80	16.4500	1.275	81	17.4500	1.243
82	18.4500	1.211	83	19.4500	1.172	84	20.4500	1.140
85	21.4500	1.108 -	86	22.4500	1.083	87	23.4500	1.051
88	24.4500	1.025	89	25.4500	0.999	90	26.4500	0.967
91	27.4500	0.942	92	28.4500	0.916	93	29.4500	0.890
94	30.4500	0.865 -	95	31.4500	0.839	96	32.4500	0.820
97	33.4500	0.794 ~	98	34.4500	0.775	99	35.4500	0.756
100	36.4500	0.730 -	101	37.4500	0.711	102	38.4500	0.692
103	39.4500	0.672	104	40.4500	0.647	105	41.4500	0.634
106	42.4500	0.615	107	43.4500	0.595	108	44.4500	0.576
109	45.4500	0.557	110	46.4500	0.538	111	47.4500	0.525
112	48.4500	0.512	113	49.4500	0.493	114	50.4500	0.480

STEWART ANG BASE

MW-05

Kim Kutawski, Aneptek Corp.



### STEWART ANG BASE MW-06 Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity: 4.47E-01 ft/day 1.58E-04 cm/sec Y-Intercept (Yo): 1.56E+00 ft Well Screen Ratio (Le/rw): 14.6 Dimensionless Parameter A: 1.99 Dimensionless Parameter B: 0.30 Slope of Line [ln(Yo/Yt)/t]: 2.481E-01 1/min 6.972E-04 ft Well Parameters (Rc^2 / 2\*Le): Dimensionless Ratio [ln(Re/rw)]: 1.796 Effective Radius [Re]: 2.07 ft 6.55E+01 ft<sup>3</sup> Volume Tested [rw<Vol<Re]:

### Well/Aquifer Parameters

Depth of well: 8.59 ft
Length of well screen: 5.00 ft
Saturated thickness: 23.09 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.687 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	1.715	2	0.0083	1.702	3	0.0167	1.689
4	0.0250	1.670	5	0.0333	1.657	6	0.0417	1.651
7	0.0500	1.638	8	0.0583	1.632	9	0.0667	1.619
10	0.0750	1.613	11	0.0833	1.607	12	0.0917	1.594
13	0.1000	1.594	14	0.1083	1.581	15	0.1167	1.575
16	0.1250	1.568	17	0.1333	1.562	18	0.1417	1.556
19	0.1500	1.549	20 -	0.1583	1.543	21	0.1667	1.537
22	0.1750	1.530	23	0.1833	1.524	24	0.1917	1.518
25	0.2000	1.518	26	0.2083	1.505	27	0.2167	1.499
28	0.2250	1.492	29	0.2417	1.486	30	0.2583	1.473
31	0.2750	1.460	32	0.2917	1.454	33	0.3083	1.441
34	0.3250	1.435	35	0.3417	1.422	36	0.3583	1.416
37	0.3750	1.410	38	0.3917	1.397	39	0.4083	1.391
40	0.4250	1.378	41 •	0,4417	1.372	42	0.4583	1.365
43	0.4750	1.352	44	0.4917	1.346	45	0.5083	1.340
46	0.5250	1.333	47	0.5417	1.327	48	0.5583	1.314

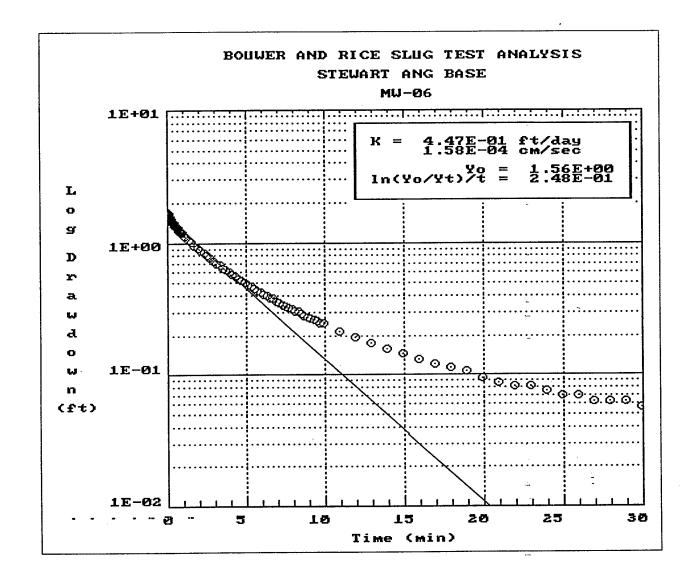
STEWART ANG BASE MW-06 Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
49	0.5750	1.308	50	0.5917	1.302	51	0.6083	1.295
52	0.6250	1.289	53	0.6417	1.283	54	0.6583	1.276
55	0.6750	1.270	56	0.6917	1.264	57	0.7083	1.251
58	0.7250	1.251	59	0.7417	1.238	60	0.7583	1.232
61	0.7750	1.225	62	0.7917	1.225	63	0.8083	1.219
64	0.8250	1.213	65	0.8417	1.206	66	0.8583	1.200
67	0.8750	1.194	68	0.8917	1.187	69	1.0917	1.117
70	1.2917	1.060	71	1.4917	1.009	72	1.6917	0.959
73	1.8917	0.914	74	2.0917	0.876	75	2.2917	0.838
76	2.4917	0.800	77	2.6917	0.768	78	2.8917	0.736
79	3.0917	0.705	80	3.2917	0.679	81	3.4917	0.647
82	3.6917	0.628	83	3.8917	0.603	84	4.0917	0.584
85	4.2917	0.558	86	4.4917	0.539	87	4.6917	0.520
88	4.8917	0.508	89	5.0917	0.482	90	5.2917	0.469
91	5.4917	0.457	92	5.6917	0.438	93	5.8917	0.425
94	6.0917	0.412	95	6.2917	0.400	96	6.4917	0:387
97	6.6917	0.381	98	6.8917	0.362	99	7.0917	0.355
100	7.2917	0.342	101	7.4917	0.336	102	7.6917	0.323
103	7.8917	0.317	104	8.0917	0.304	105	8.2917	0.304
106	8.4917	0.292	107	8.6917	0.285	108	8.8917	0.279
109	9.0917	0.273	110	9.2917	0.266	111	9.4917	0.260
112	9.6917	0.247	113	9.8917	0.247	114	10.8917	0.215
115	11.8917	0.196	116	12.8917	0.177	117	13.8917	0.158
118	14.8917	0.146	119	15.8917	0.133	120	16.8917	0.120
121	17.8917	0.114	122	18.8917	0.107	123	19.8917	0,095
124	20.8917	0.088	125	21.8917	0.082	126	22.8917	0.082
1.27	23.8917	0.076	128	24.8917	0.069	129	25.8917	0.069
130	26.8917	0.063	131	27.8917	0.063	132	28.8917	0.063
133	29.8917	0.057						

STEWART ANG BASE

MW-06

Kim Kutawski, Aneptek Corp.



### STEWART ANG BASE MW-07 Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity: 5.33E-01 ft/day 1.88E-04 cm/sec

Y-Intercept (Yo): 1.58E+00 ft

Well Screen Ratio (Le/rw): 30.3 Dimensionless Parameter A: 0.00 Dimensionless Parameter B: 0.00

Slope of Line [ln(Yo/Yt)/t]: 1.527E-01 1/min Well Parameters (Rc^2 / 2\*Le): 6.972E-04 ft

Dimensionless Ratio [ln(Re/rw)]: 3.479

Effective Radius [Re]: 5.35 ft 4.49E+02 ft<sup>3</sup> Volume Tested [rw<Vol<Re]:</pre>

### Well/Aquifer Parameters

ft Depth of well: 24.86 5.00 ft Length of well screen: ft Saturated thickness: 22.00 Diameter of the well casing: 0.167 ft Diameter of the well filter: 0.330 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0010	1.656	2	0.0083	1.644	3	0.0166	1.637
4	0.0250	1.637	5	0.0333	1.624	6	0.0416	1.624
7	0.0500	1.618	8	0.0583	1.612	9	0.0666	1.605
10	0.0750	1.605	11	0.0833	1.599	12	0.0916	1.593
13	0.1000	1.586	14	0.1083	1.586	15	0.1166	1.580
16	0.1250	1.580	17	0.1333	1.573	18	0.1416	1.573
19	0.1500	1.567	20	0.1583	1.561	21	0.1750	1.561
22	0.1916	1.554	23	0.2083	1.542	24	0.2250	1.535
25	0.2416	1.529	26	0.2583	1.529	27	0.2750	1.522
28	0.2916	1.516	29	0.3083	1.510	30	0.3250	1.503
31	0.3416	1.497	32	0.3583	1.491	33	0.3750	1.491
34	0.3916	1.484	35	0.4083	1.478	36	0.4250	1.471
37	0.4416	1.471	38	0.4583	1.465	39	0.4750	1.459
40	0.4916	1.452	41	0.5083	1.446	42	0.5250	1.446
43	0.5416	1.440	44	0.5583	1.433	45	0.5750	1.433
46	0.5916		47	0.6083	1.421	48	0.6250	1.414

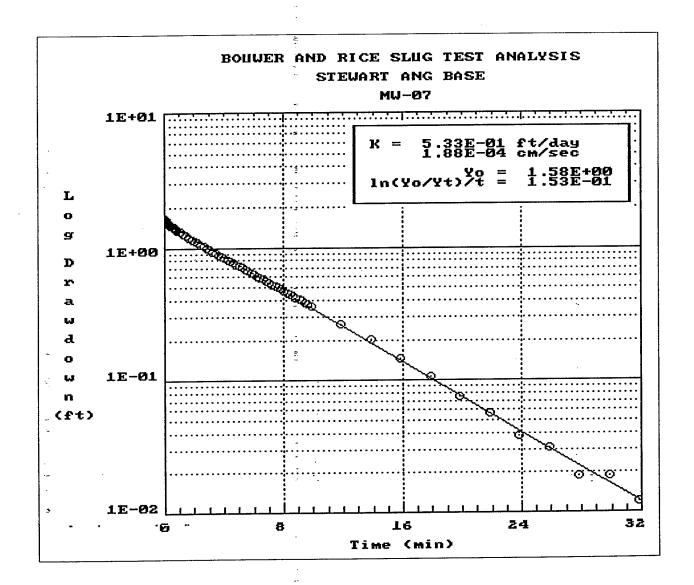
STEWART ANG BASE

MW-07

Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
49	0.6416	1.414	50	0.6583	1.408	51	0.6750	1.408
52	0.6916	1.401	53	0.7083	1.395	54	0.7250	1.389
55	0.7416	1.389	56	0.7583	1.382	57	0.7750	1.376
58	0.7916	1.376	59	0.8083	1.370	60	0.8250	<i>-</i> 1.363
61	1.0250	1.325	62	1.2250	1.274	63	1.4250	1.236
64	1.6250	1.197	65	1.8250	1.159	66	2.0250	<sup>=</sup> 1.127
67	2.2250	1.095	68	2.4250	1.057	69	2.6250	1.032
70	2.8250	0.994	71	.3.0250	0.974	72	3.2250	<sub>9</sub> 0.943
<b>7</b> 3	3.4250	0.917	74	3.6250	0.885	75	3.8250	. 0.866
76	4.0250	0.841	77	4.2250	0.815	78	4.4250	0.790
79	4.6250	0.770	80	4.8250	0.751	81	5.0250	0.726
82	5.2250	0.707	83	5.4250	0.688	84	5.6250	.0.669
85	5.8250	0.649	86	6.0250	0.630	87	6.2250	- 0.611
88	6.4250	0.598	89	6.6250	0.579	90	6.8250	0.560
91	7.0250	0.547	92	7.2250	0.528	93	7.4250	0.516
94	7.6250	0.503	95	7.8250	0.490	96	8.0250	_
97	8.2250	0.458	98	8.4250	0.446	99	8.6250	0.439
100	8.8250	0.420	101	9.0250	0.407	102	9.2250	0.401
103	9.4250	0.388	104	9.6250	0.375	105	9.8250	0.363
106	11.8250	0.267	107	13.8250	0.203	108	15.8250	0.146
109	17.8250	0.108	110	19.8250	0.076	111	21.8250	0.057
112	23.8250	0.038	113	25.8250	0.031	114	27.8250	0.019
115	29.8250	0.019	116	31.8250	0.012	117	0.0000	1.000

STEWART ANG BASE
MW-07
Kim Kutawski, Aneptek Corp.



### STEWART ANG BASE MW-07 DUPLICATE Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity: 4.46E-01 ft/day 1.57E-04 cm/sec

Y-Intercept (Yo): 1.58E+00 ft
Well Screen Ratio (Le/rw): 30.3

Well Screen Ratio (Le/rw): 30.3

Dimensionless Parameter A: 0.00

Dimensionless Parameter B: 0.00

Slope of Line [ln(Yo/Yt)/t]: 1.277E-01 1/min Well Parameters (Rc^2 / 2\*Le): 6.972E-04 ft

Dimensionless Ratio [ln(Re/rw)]: 3.479

Effective Radius [Re]: 5.35 ft
Volume Tested [rw<Vol<Re]: 4.49E+02 ft^3

### Well/Aquifer Parameters

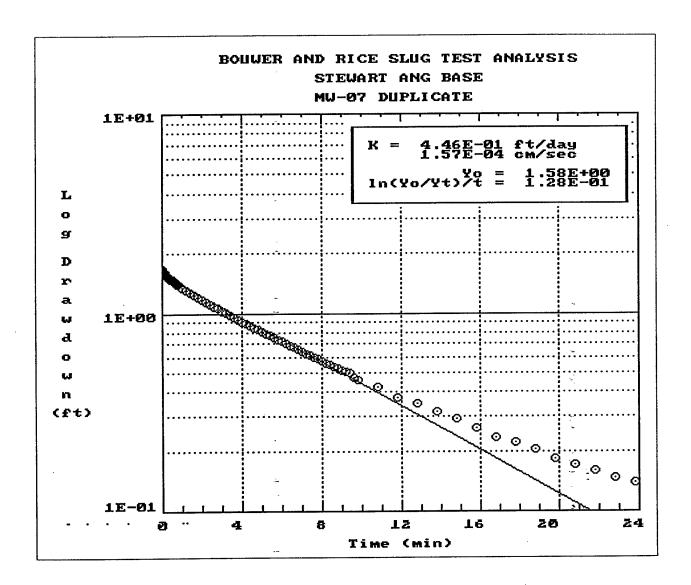
Depth of well: 24.86 ft
Length of well screen: 5.00 ft
Saturated thickness: 22.00 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.330 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	1.669	2	0.0083	1.656	3	0.0167	1.650
4	0.0250	1.644	5	0.0333	1.637	6	0.0417	1.631
7	0.0500	1.625	8	0.0583	1.625	9	0.0667	1.618
10	0.0750	1.612	11	0.0833	1.612	12	0.0917	1.605
13	0.1000	1.599	14	0.1083	1.599	15	0.1167	1.593
16	0.1250	1.593	17	0.1333	1.586	18	0.1417	1.580
19	0.1500	1.580	20	0.1667	1.574	21	0.1833	1.567
22	0.2000	1.561	23	0.2167	1.554	24	0.2333	1.548
25	0.2500	1.542	26	0.2667	1.535	27	0.2833	1.535
28	0.3000	1.529	29	0.3167	1.523	30	0.3333	1.516
31	0.3500	1.510	32	0.3667	1.503	33	0.3833	1.503
34	0.4000	1.497	35	0.4167	1.491	36	0.4333	1.484
37	0.4500	1.484	38	0.4667	1.478	39	0.4833	1.472
40	0.5000	1.472	41	0.5167	1.465	42	0.5333	1.459
43	0.5500	1.459	44	0.5667	1.452	45	0.5833	1.452
46	0.6000	1.446	47	0.6167	1.440	48	0.6333	1.440
49	0.6500	1.433	50	0.6667	1.427	51	0.6833	1.427

STEWART ANG BASE
MW-07 DUPLICATE
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
52	0.7000	1.421	53	0.7167	1.421	54	0.7333	1.414
55	0.7500	1.408	56	0.7667	1.408	57	0.7833	1.401
58	0.8000	1.401	59	0.8167	1.395	60	1.0167	1.350
61	1.2167	1.306	62	1.4167	1.274	63	1.6167	1.236
64	1.8167	1.204	65	2.0167	1.166	66	2.2167	1.140
67	2.4167	1.108	68	2.6167	1.076	69	2.8167	1.057
70	3.0167	1.025	71	3.2167	1.006	72	3.4167	0.981
73	3.6167	0.949	74	3.8167	0.930	75	4.0167	0.904
76	4.2167	0.892	77	4.4167	0.866	78	4.6167	0.847
79	4.8167	0.828	80	5.0167	0.809	81	5.2167	0.790
82	5.4167	0.771	83	5.6167	0.751	84	5.8167	0.732
85	6.0167	0.720	86	6.2167	0.700	87	6.4167	0.688
88	6.6167	0.675	89	6.8167	0.656	90	7.0167	0.637
91	7.2167	0.624	92	7.4167	0.611	93	7.6167	0.598
94	7.8167	0.586	95	8.0167	0.573	96	8.2167	0.560
97	8.4167	0.547	98	8.6167	0.535	99	8.8167	0.528
100	9.0167	0.516	101	9.2167	0.503	102	9.4167	0.497
103	9.6167	0.471	104	9.8167	0.458	105	10.8167	0.426
106	11.8167	0.375	107	12.8167	0.350	108	13.8167	0.318
109	14.8167	0.293	110	15.8167	0.261	111	16.8167	0.235
112	17.8167	0.223	113	18.8167	0.203	114	19.8167	0.184
115	20.8167	0.172	116	21.8167	0.159	117	22.8167	0.146
118	23.8167	0.140						

STEWART ANG BASE
MW-07 DUPLICATE
Kim Kutawski, Aneptek Corp.



### STEWART ANG BASE MW-08 Kim Kutawski, Aneptek Corp.

### Results

1.30E+00 ft/day Hydraulic Conductivity: 4.58E-04 cm/sec 1.62E+00 ft Y-Intercept (Yo): Well Screen Ratio (Le/rw): 14.6 Dimensionless Parameter A: 0.00 Dimensionless Parameter B: 0.00 5.455E-01 1/min Slope of Line [ln(Yo/Yt)/t]: 6.972E-04 ft Well Parameters (Rc^2 / 2\*Le): Dimensionless Ratio [ln(Re/rw)]: 2.372 Effective Radius [Re]: 3.68 ft Volume Tested [rw<Vol<Re]: 2.11E+02 ft<sup>3</sup>

### Well/Aquifer Parameters

Depth of well: 10.72 ft
Length of well screen: 5.00 ft
Saturated thickness: 10.42 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.687 ft

				-				
No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	1.824	2	0.0083	1.773	3	0.0166	1.767
4	0.0250	1.748	5	ο.δ333	1.729	6	0.0416	1.703
7	0.0500	1.703	8	0.0583	1.678	9	0.0666	1,671
10	0.0750	1.646	11	0.0833	1.633	12	0.0916	1.614
13	0.1000	1.601	14	0.1083	1.588	15	0.1166	1.575
16	0.1250	1.575	17	0.1333	1.556	18	0.1416	1.550
19	0.1500	1.544	20	0.1583	1.531	21	0.1666	1.518
22	0.1750	1.499	23	0.1833	1.486	24	0.1916	1.486
25	0.2000	1.473	26	0.2083	1.467	27	0.2166	1.454
28	0.2250	1.448	29	0.2333	1.435	30	0.2500	1:416
31	0.2666	1.397	32	0.2833	1.384	33	0.3000	
34	0.3166	1.346	35	0.3333	1.333	36	0.3500	1.320
37	0.3666	1.301	38 .	0.3833	1.295	39	0.4000	1,269
40	0.4166	1.263	41	0.4333	1.244	42	0.4500	1.237
43	0.4666	1.212	44	0.4833	1.199	45	0.5000	1.186
46	0.5166	1.173	47	0.5333	1.161	48	0.5500	1.148

STEWART ANG BASE

MW-08

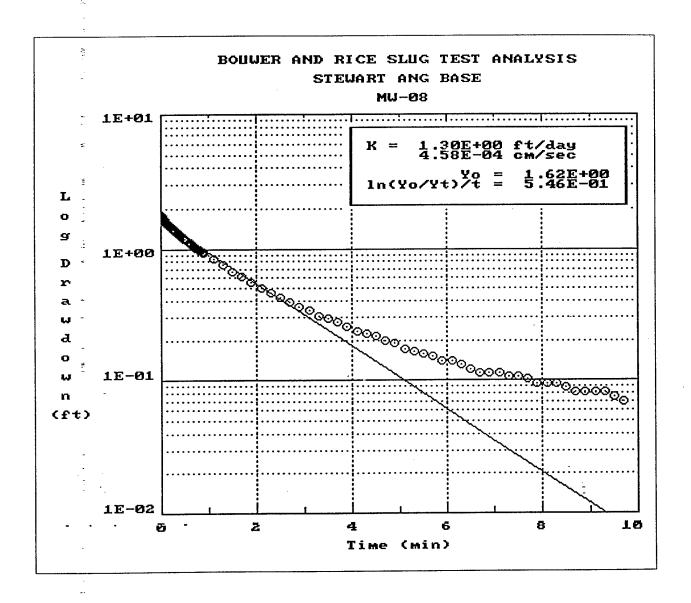
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
				<b>3</b>				
49	0.5666	1.142	50	0.5833	1.129	51	0.6000	1.116
52	0.6166	1.110	53	0.6333	1.097	54	0.6500	1.078
55	0.6666	1.065	56	0.6833	1.065	57	0.7000	1.052
58	0.7166	1.033	59	0.7333	1.020	60	0.7500	1.014
61	0.7666	1.001	62	0.7833	1.001	63	0.8000	0.988
.64	0.8166	0.976	65	0.8333	0.963	66	0.8500	0.956
67	0.8666	0.950	68	0.8833	0.944	69	0.9000	0.931
70	1.1000	0.842	71	1.3000	0.752	72	1.5000	0.676
73	1.7000	0.612	74	1.9000	0.561	75	2.1000	0.503
76	2.3000	0.459	77	2.5000	0.427	78	2.7000	0.395
79	2.9000	0.363	80	3.1000	0.338	81	3.3000	0.306
82	3.5000	0.293	83	3.7000	0.274	84	3.9000	0.255
85	4.1000	0.236	86	4.3000	0.223	87	4.5000	0.216
88	4.7000	0.197	89	4.9000	0.191	90	5.1000	0.172
91	5.3000	0.165	92	5.5000	0.159	93	5.7000	0.153
94	5.9000	0.140	95	6.1000	0.140	96	6.3000	0:133
97	6.5000	0.121	98	6.7000	0.114	99	6.9000	0.114
100	7.1000	0.114	101	7.3000	0.108	102	7.5000	0.108
103	7.7000	0.102	104	7.9000	0.095	105	8.1000	0.095
106	8.3000	0.095	107	8.5000	0.089	108	8.7000	0.082
109	8.9000	0.082	110	9.1000	0.082	111	9.3000	0.082
112	9.5000	0.076	113	9.7000	0.070	114	0.0000	1.000

STEWART ANG BASE

MW-08

Kim Kutawski, Aneptek Corp.



### STEWART ANG BASE MW-08 DUPLICATE Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity: 1.88E+00 ft/day
6.64E-04 cm/sec
Y-Intercept (Yo): 1.75E+00 ft
Well Screen Ratio (Le/rw): 14.6
Dimensionless Parameter A: 2.51
Dimensionless Parameter B: 0.37

Slope of Line [ln(Yo/Yt)/t]: 7.994E-01 1/min Well Parameters (Rc^2 / 2\*Le): 6.889E-04 ft
Dimensionless Ratio [ln(Re/rw)]: 2.372

Effective Radius [Re]: 3.68 ft Volume Tested [rw<Vol<Re]: 2.11E+02 ft^3

### Well/Aquifer Parameters

Depth of well: 10.72 ft
Length of well screen: 5.00 ft
Saturated thickness: 10.42 ft
Diameter of the well casing: 0.166 ft
Diameter of the well filter: 0.687 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	1.824	2	0.0083	1.786	3	0.0167	1.767
4	0.0250	1.741	5	0.0333	1.722	6	0.0417	1.710
7	0.0500	1.690	8	0.0583	1.678	9	0.0667	1.658
10	0.0750	1.646	11	0.0833	1.633	12	0.0917	1.620
13	0.1000	1.607	14	0.1083	1.595	15	0.1167	1.582
16	0.1250	1.569	17	0.1333	1.556	18	0.1417	1.550
19	0.1500	1.531	20	0.1583	1.524	21	0.1667	1.512
22	0.1750	1.505	23	0.1833	1.493	24	0.1917	1.480
25	0.2000	1.473	26	0.2083	1.461	27	0.2167	1.454
28	0.2250	1.442	29	0.2417	1.429	30	0.2583	1.403
31	0.2750	1.390	32	0.2917	1.371	33	0.3083	1.352
34	0.3250	1.333	35	0.3417	1.320	36	0.3583	1.320
37	0.3750	1.288	38	0.3917	1.256	39	0.4083	1.263
40	0.4250	1.244	41	0.4417	1.231	42	0.4583	1.212
43	0.4750	1.199	44	0.4917	1.186	45	0.5083	1.167
46	0.5250	1.161	47	0.5417	1.142	48	0.5583	1.129
49	0.5750	1.116	50	0.5917	1.110	51	0.6083	1.091

STEWART ANG BASE

MW-08 DUPLICATE

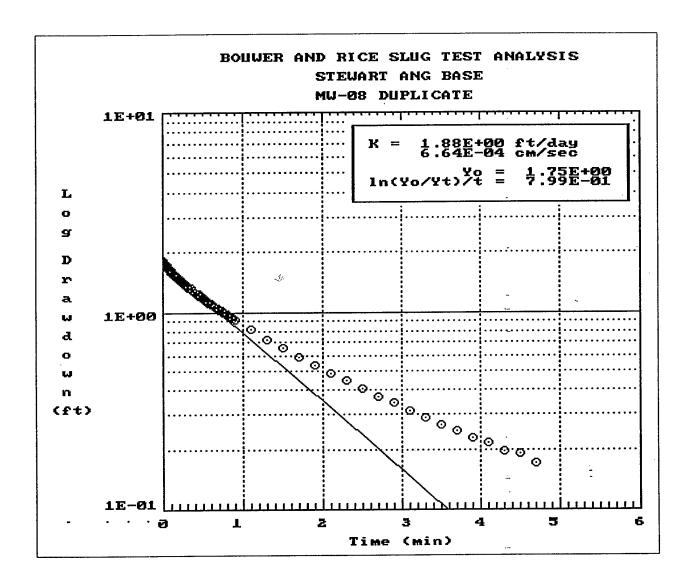
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
52	0.6250	1.084	53	0.6417	1.071	54	0.6583	1.065
55	0.6750	1.052	56	0.6917	1.039	57	0.7083	1.027
58	0.7250	1.020	59	0.7417	1.008	60	0.7583	0.995
61	0.7750	0.988	62	0.7917	0.976	63	0.8083	0.969
64	0.8250	0.957	65	0.8417	0.950	66	0.8583	0.937
67	0.8750	0.931	68	0.8917	0.918	69	1.0917	0.816
70	1.2917	0.727	71	1.4917	0.657	72	1.6917	0.593
73	1.8917	0.535	74	2.0917	0.484	<b>7</b> 5	2.2917	0.446
76	2.4917	0.408	77	2.6917	0.370	78	2.8917	0.344
79	3.0917	0.312	80	3.2917	0.287	81	3.4917	0.267
82	3.6917	0.248	83	3.8917	0.229	84	4.0917	0.216
85	4.2917	0.197	86	4.4917	0.191	87	4.6917	0.172

STEWART ANG BASE

MW-08 DUPLICATE

Kim Kutawski, Aneptek Corp.



# STEWART ANG BASE MW-09 Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity: 1.64E+00 ft/day 5.79E-04 cm/sec Y-Intercept (Yo): 2.00E+00 ft Well Screen Ratio (Le/rw): 30.3 Dimensionless Parameter A: 2.51 Dimensionless Parameter B: 0.37 Slope of Line [ln(Yo/Yt)/t]: 6.164E-01 1/min Well Parameters (Rc^2 / 2\*Le): 6.972E-04 ft 2.652 Dimensionless Ratio [ln(Re/rw)]: Effective Radius [Re]: 2.34 ft 8.56E+01 ft<sup>3</sup> Volume Tested [rw<Vol<Re]:</pre>

### Well/Aquifer Parameters

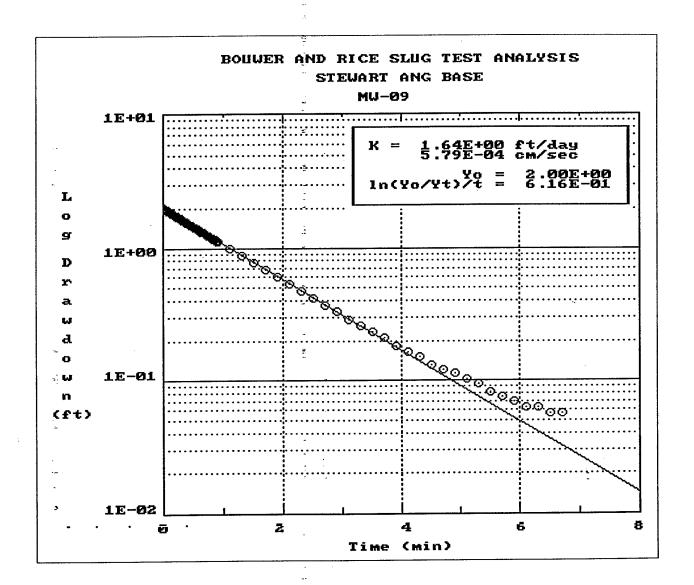
Depth of well: 14.20 ft
Length of well screen: 5.00 ft
Saturated thickness: 22.00 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.330 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time D	rawdown (ft)
							~	
1	0.0001	2.053	2	0.0083	2.028	3	0.0167 -	2.015
4	0.0250	2.002	5	0.0333	1.996	6	0.0417	1.977
7	0.0500	1.970	8	0.0583	1.957	9	0.0667	1.945
10	0.0750	1.932	11	0.0833	1.926	12	0.0917	1.913
13	0.1000	1.900	14	0.1083	1.894	15	0.1167	1.881
16	0.1250	1.868	17	0.1333	1.862	18	0.1417	1.849
19	0.1500	1.836	20	0.1583	1.830	21	0.1667	1.817
22	0.1750	1.804	23	0.1833	1.798	24	0.1917	1.785
25	0.2000	1.779	26	0.2083	1.766	27	0.2167 -	1.760
28	0.2250	1.747	29	0.2333	1.741	30	0.2417	1.728
31	0.2500	1.721	32	0.2667	1.702	33	0.2833	1.683
34	0.3000	1.664	35	0.3167	1.645	36	0.3333	1.626
37	0.3500	1.607	38	0.3667	1.594	39	0.3833	1.575
40	0.4000	1.556	41	0.4167	1.543	42	0.4333	1.524
43	0.4500	1.511	44	0.4667	1.492	45	0.4833	1.479
46	0.5000	1.460	47	0.5167	1.447	48	0.5333	1.428

STEWART ANG BASE
MW-09
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
49	0.5500	1.415	50	0.5667	1.396	51	0.5833	1.383
52	0.6000	1.371	53	0.6167	1.358	54	0.6333	<sup>-</sup> 1.339
55	0.6500	1.326	56	0.6667	1.313	57	0.6833	1.300
58	0.7000	1.288	59	0.7167	1.275	60	0.7333	1.256
61	0.7500	1.249	62	0.7667	1.230	63	0.7833	1.218
64	0.8000	1.205	65	0.8167	1.192	66	0.8333	<b>* 1.179</b>
67	0.8500	1.173	68	0.8667	1.160	69	0.8833	1.147
70	0.9000	1.135	71	0.9167	1.122	72	1.1167	<sup>1</sup> 0.994
73	1.3167	0.873	74	1.5167	0.771	75	1.7167	0.682
76	1.9167	0.605	77	2.1167	0.535	78	2.3167	0.471
79	2.5167	0.414	80	2.7167	0.369	81	2.9167	0.331
82	3.1167	0.286	83	3.3167	0.261	. 84	3.5167	<sup>:</sup> 0.235
85	3.7167	0.210	86	3.9167	0.184	<b>87</b>	4.1167	* 0.165
88	4.3167	0.153	89	4.5167	0.133	90	4.7167	0.121
91	4.9167	0.114	92	5.1167	0.102	93	5.3167	<sub>-</sub> 0.095
94	5.5167	0.082	95	5.7167	0.076	96	5.9167	0.070
97	6.1167	0.063	98	6.3167	0.063	99	6.5167	0.057
100	6.7167	0.057						-

STEWART ANG BASE
MW-09
Kim Kutawski, Aneptek Corp.



# STEWART ANG BASE MW-09 DUPLICATE Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity: 1.78E+00 ft/day 6.29E-04 cm/sec Y-Intercept (Yo): 1.97E+00 ft

Well Screen Ratio (Le/rw): 30.3
Dimensionless Parameter A: 2.51
Dimensionless Parameter B: 0.37

Slope of Line [ln(Yo/Yt)/t]: 6.699E-01 1/min
Well Parameters (Rc^2 / 2\*Le): 6.972E-04 ft
Dimensionless Ratio [ln(Re/rw)]: 2.652
Effective Radius [Re]: 2.34 ft

Volume Tested [rw<Vol<Re]: 8.56E+01 ft^3

### Well/Aquifer Parameters

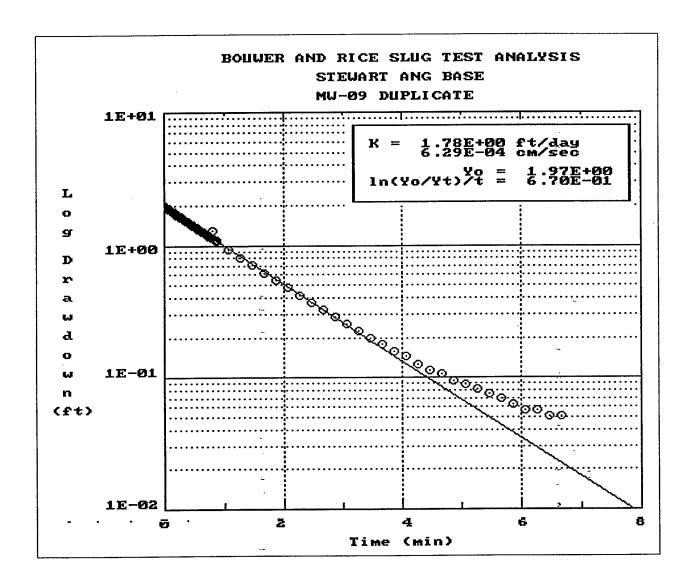
Depth of well: 14.20 ft
Length of well screen: 5.00 ft
Saturated thickness: 22.00 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.330 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	1.983	2	0.0083	1.983	3	0.0166	1.977
4	0.0250	1.964	5	0.0333	1.951	6	0.0416	1.938
7	0.0500	1.926	8	0.0583	1.913	9	0.0666	1.906
10	0.0750	1.894	11	0.0833	1.881	12	0.0916	1.868
13	0.1000	1.862	14	0.1083	1.849	15	0.1166	1.836
16	0.1250	1.823	17	0.1333	1.811	18	0.1416	1.804
19	0.1500	1.792	20	0.1583	1.779	21	0.1666	1.766
22	0.1750	1.760	23	0.1833	1.747	24	0.1916	1.741
25	0.2000	1.728	26	0.2083	1.715	27	0.2250	1.696
28	0.2416	1.677	29	0.2583	1.658	30	0.2750	1.632
31	0.2916	1.613	32	0.3083	1.600	33	0.3250	1.575
34	0.3416	1.562	35	0.3583	1.543	36	0.3750	1.524
37	0.3916	1.505	38	0.4083	1.492	39	0.4250	1.473
40	0.4416	1.454	41	0.4583	1.441	42	0.4750	1.422
43	0.4916	1.403	44	0.5083	1.390	45	0.5250	1.371
46	0.5416	1.358	47	0.5583	1.339	48	0.5750	1.326
49	0.5916	1.307	50	0.6083	1.294	51	0.6250	1.281

STEWART ANG BASE
MW-09 DUPLICATE
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
52	0.6416	1.262	53	0.6583	1.249	54	0.6750	1.237
55	0.6916	1.224	56	0.7083	1.211	57	0.7250	1.192
58	0.7416	1.179	59	0.7583	1.167	60	0.7750	1.154
61	0.7916	1.141	62	0.8083	1.307	63	0.8250	1.115
64	0.8416	1.103	65	0.8583	1.090	66	0.8750	1.077
67	1.0750	0.937	68	1.2750	0.816	69	1.4750	0.714
70	1.6750	0.624	71	1.8750	0.548	72	2.0750	0.478
73	2.2750	0.420	74	2.4750	0.369	<b>7</b> 5	2.6750	0.325
76	2.8750	0.286	77	3.0750	0.255	78	3.2750	0.223
<b>7</b> 9	3.4750	0.197	80	3.6750	0.178	81	3.8750	0.159
82	4.0750	0.146	83	4.2750	0.127	84	4.4750	0.114
85	4.6750	0.108	86	4.8750	0.095	87	5.0750	0.089
88	5.2750	0.082	89	5.4750	0.076	90	5.6750	0.070
91	5.8750	0.063	92	6.0750	0.057	93	6.2750	0.057
94	6.4750	0.051	95	6.6750	0.051	96	5.9167	0,070

STEWART ANG BASE
MW-09 DUPLICATE
Kim Kutawski, Aneptek Corp.



# STEWART ANG BASE MW-10 Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity:	7.17E-01 2.53E-04	ft/day cm/sec
Y-Intercept (Yo):	1.44E+00	ft
Well Screen Ratio (Le/rw):	14.6	
Dimensionless Parameter A:	1.99	
Dimensionless Parameter B:	0.30	
Slope of Line [ln(Yo/Yt)/t]:	3.526E-01	1/min
Well Parameters (Rc^2 / 2*Le):	6.972E-04	ft
Dimensionless Ratio [ln(Re/rw)]:	2.026	
Effective Radius [Re]:	2.61	Ít
Volume Tested [rw <vol<re]:< td=""><td>1.05E+02</td><td>ft^3</td></vol<re]:<>	1.05E+02	ft^3

### Well/Aquifer Parameters

Depth of well:	9.75	ft
Length of well screen:	5.00	ft
Saturated thickness:	11.05	ft
Diameter of the well casing:	0.167	ft
Diameter of the well filter:	0.687	ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	1.447	2	0.0167	1.441	3	0.0334	1.428
4	0.0500	1.422	5	0.0667	1.416	6	0.0834	1.403
7	0.1000	1.396	8	0.1167	1.390	9	0.1334	1.377
10	0.1500	1.371	11	0.1667	1.358	12	0.1834	1.358
13	0.2000	1.346	14	0.2167	1.339	15	0.2334	1.333
16	0.2500		17	0.2667	1.320	18	0.2834	<sup></sup> 1.308
19	0.3000		20	0.3167	1.288	21	0.3334	1.282
22	0.3500	1.276	23	0.3667	1.263	24	0.3834	1.257
25	0.4000	1.250	26	0.4167	1.244	27	0.4334	1.238
28	0.4500	1.231	29	0.4667	1.225	30	0.4834	-1.212
31	0.5000		32	0.5167	1.200	33	0.5334	-1.193
34	0.7334	1.104	35	0.9334	1.028	36	1.1334	~0.958
37	1.3334	0.895	38 *	1.5334	0.831	39	1.7334	0.774
40	1.9334	0.723	41	2.1334	0.711	42	2.3334	0.685
43	2.5334		44	2.7334	0.634	45	2.9334	0.615
46	3.1334		47	3.3334	0.577	48	3.5334	0.558

STEWART ANG BASE

MW-10

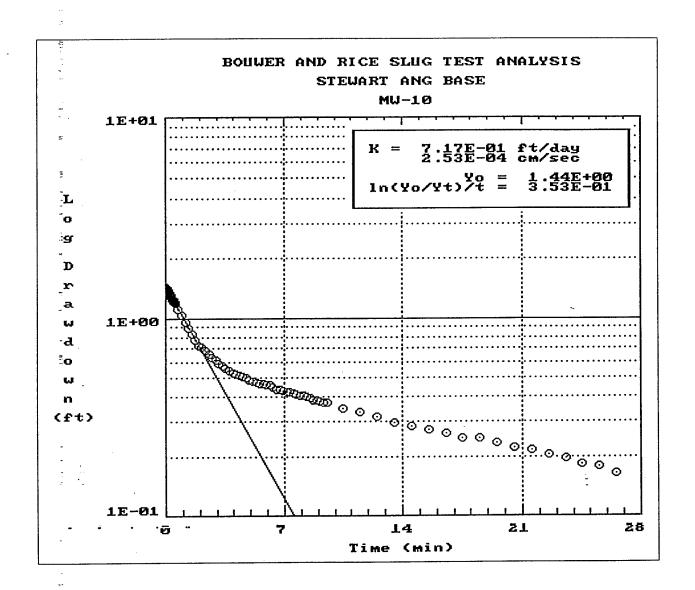
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
49	3.7334	0.539	50	3.9334	0.526	51	4.1334	0.520
52	4.3334	0.514	53	4.5334	0.507	54	4.7334	0.501
<b>5</b> 5	4.9334	0.488	56	5.1334	0.482	57	5.3334	0.476
58	5.5334	0.469	59	5.7334	0.469	60	5.9334	0.463
61	6.1334	0.457	62	6.3334	0.450	63	6.5334	0.438
64	6.7334	0.438	65	6.9334	0.431	66	7.1334	0.425
67	7.3334	0.425	68	7.5334	0.419	69	7.7334	0.412
70	7.9334	0.406	71	8.1334	0.406	72	8.3334	1 0.399
73	8.5334	0.393	74	8.7334	1 0.387	75	8.9334	1 0.387
76	9.1334	0.380	77	9.3334	0.374	78	9.5334	0.374
79	10.5334	0.349	80	11.533	1 0.336	81	12.5334	1 0.317
82	13.5334	0.298	83	14.5334	1 0.285	84	15.5334	1 0.273
85	16.5334	0.260	86	17.533	1 0.247	87	18.5334	0.247
88	19.5334	0.234	89	20.5334	0.222	90	21.5334	1 0.215
91	22.5334	0.203	92	23.5334	1 0.196	93	24.5334	0.184
94	25.5334	1 0.177	95	26.533	4 0.165	96	0.000	1.000

STEWART ANG BASE

MW-10

Kim Kutawski, Aneptek Corp.



# STEWART ANG BASE MW-10 DUPLICATE Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity:	2.23E-01 7.88E-05	ft/day cm/sec
Y-Intercept (Yo):	1.69E+00	ft
Well Screen Ratio (Le/rw):	14.6	
Dimensionless Parameter A:	1.99	
Dimensionless Parameter B:	0.30	
Slope of Line [ln(Yo/Yt)/t]:	1.098E-01	1/min
Well Parameters (Rc^2 / 2*Le):	6.972E-04	ft
<pre>Dimensionless Ratio [ln(Re/rw)]:</pre>	2.026	
Effective Radius [Re]:	2.61	ft
Volume Tested [rw <vol<re]:< td=""><td>1.05E+02</td><td>ft^3</td></vol<re]:<>	1.05E+02	ft^3

### Well/Aquifer Parameters

Depth of well: 9.75 ft
Length of well screen: 5.00 ft
Saturated thickness: 11.05 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.687 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	1.759	2	0.0083	1.733	3	0.0167	1.740
4	0.0250	1.727	5	0.0333	1.727	6	0.0417	1.720
7	0.0500	1.714	8	0.0583	1.714	9	0.0667	1.708
10	0.0750	1.708	11	0.0833	1.701	12	0.0917	1.701
13	0.1000	1.695	14	0.1083	1.695	15	0.1167	- 1.689
16	0.1250	1.689	17	0.1333	1.682	. 18	0.1417	1.682
19	0.1500	1.682	20	0.1583	1.682	21	0.1667	1.676
22	0.1750	1.670	23	0.1833	1.670	24	0.1917	1.670
25	0.2000	1.663	26	0.2167	1.663	27	0.2333	1.657
28	0.2500	1.651	29	0.2667	1.644	30	0.2833	1.644
31	0.3000	1.638	32	0.3167	1.632	33	0.3333	1.632
34	0.3500	1.625	35	0.3667	1.619	36	0.3833	1.619
37	0.4000	1.612	38	0.4167	1.606	39	0.4333	1.606
40	0.4500	1.600	41 *	0.4667	1.600	42	0.4833	1.593
43	0.5000	1.587	44	0.5167	1.587	45	0.5333	1.581
46	0.5500	1.581	47	0.5667	1.574	48	0.5833	1.568
49	0.6000	1.568	50	0.6167	1.562	51	0.6333	1.562

STEWART ANG BASE

MW-10 DUPLICATE

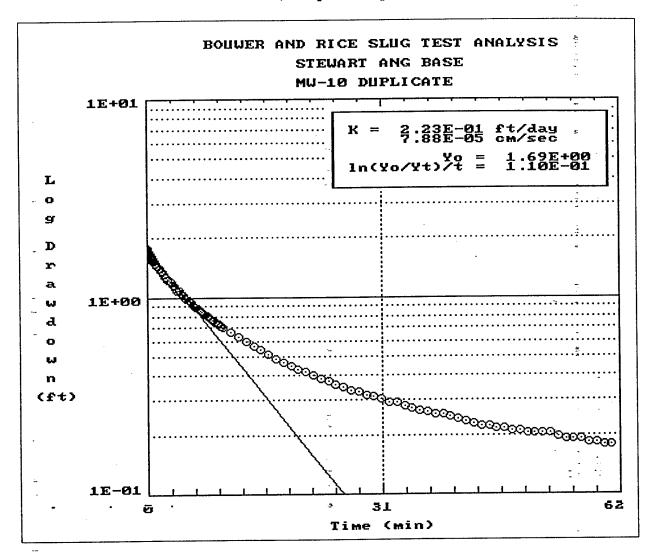
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
52	0.6500	1.555	53	0.6667	1.555	54	0.6833	1.549
55	0.7000	1.543	56	0.7167	1.543	57	0.7333	1.536
58	0.7500	1.530	59	0.7667	1.530	60	0.7833	1.530
61	0.8000	1.524	62	0.8167	1.524	63	0.8333	1.517
64	0.8500	1.517	65 ·	0.8667	1.511	66	1.0667	1.473
67	1.2667	1.435	68	1.4667	1.403	69	1.6667	1.371
70	1.8667	1.339	71	2.0667	1.308	72	2.2667	1.276
73	2.4667	1.250	74	2.6667	1.225	75	2.8667	1.200
76	3.0667	1.181	<b>7</b> 7	3.2667	1.155	78	3.4667	1.136
79	3.6667	1.111	80 -	3.8667	1.085	81	4.0667	1.073
82	4.2667	1.047	83	4.4667	1.035	84	4.6667	1.015
85	4.8667	0.996	86	5.0667	0.984	87	5.2667	0.965
88	5.4667	0.952	89 -	5.6667	0.939	90	5.8667	0.920
91	6.0667	0.908	92	6.2667	0.895	93	6.4667	0.882
94	6.6667	0.869	95	6.8667	0.857	96	7.0667	0.844
97	7.2667	0.831	98 -	7.4667	0.819	99	7.6667	0.806
100	7.8667	0.800	101	8.0667	0.787	102	8.2667	0.774
103	8.4667	0.768	104 .	8.6667	0.761	105	8.8667	0.749
106	9.0667	0.736	107	9.2667	0.730	108	9.4667	0.717
109	9.6667	0.711	110	9.8667	0.704	111	10.8667	0.666
112	11.8667	0.628	113	12.8667	0.596	114	13.8667	0.565
115	14.8667	0.539	116	15.8667	0.514	117	16.8667	0.488
118	17.8667	0.469	119	18.8667	0.450	120	19.8667	0.431
121	20.8667	0.419	122	21.8667	0.400	123	22.8667	0.387
124	23.8667	0.374		24.8667	0.361	126	25.8667	0.349
127	26.8667	0.336	128	27.8667	0.330	129	28.8667	0.317
130	29.8667	0.311		30.8667	0.304	132	31.8667	0.292
133	32.8667	0.292	-	33.8667	0.279	135	34.8667	0.273
136	35.8667	0.266	137	36.8667	0.260	138	37.8667	0.253
139	38.8667	0.253	140	39.8667	0.247	141	40.8667	0.241
142	41.8667	0.234	143	42.8667	0.228	144	43.8667	0.222
145	44.8667	0.222		45.8667	0.215	147	46.8667	0.215
148	47.8667	0.209	149	48.8667	0.209	150	49.8667	0.203
151	50.8667	0.203		51.8667	0.203	153	52.8667	
154	53.8667	0.196	155	54.8667	0.190	156	55.8667	
157	56.8667	0.190		57.8667	0.184	159	58.8667	0.184
160	59.8667	0.177	161	60.8667	0.177	162	0.0000	1.000

STEWART ANG BASE

MW-10 DUPLICATE

Kim Kutawski, Aneptek Corp.



## STEWART ANG BASE MW-11 Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity: 6.23E-02 ft/day 2.20E-05 cm/sec

Y-Intercept (Yo): 2.08E+00 ft

Well Screen Ratio (Le/rw): 30.3
Dimensionless Parameter A: 2.51
Dimensionless Parameter B: 0.37

Slope of Line [ln(Yo/Yt)/t]: 2.341E-02 1/min Well Parameters (Rc^2 / 2\*Le): 6.972E-04 ft

Dimensionless Ratio [ln(Re/rw)]: 2.652

Effective Radius [Re]: 2.34 ft
Volume Tested [rw<Vol<Re]: 8.56E+01 ft^3

### Well/Aquifer Parameters

Depth of well: 14.20 ft
Length of well screen: 5.00 ft
Saturated thickness: 22.00 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.330 ft

					•			
No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	2.148	2	0.0083	2.142	3	0.0167	2.123
43	0.0250	2.104	5	0.0333	2.091	6	0.0417	2.085
7	0.0500	2.078	8	0.0583	2.072	9	0.0667	2.078
10	0.0750	2.078	11	0.0833	2.078	12	0.0917	2.078
13	0.1000	2.072	14	0.1083	2.072	15	0.1167	2.072
16	0.1250	2.072	17	0.1333	2.072	18	0.1417	2.072
19	0.1500	2.065	20	0.1583	2.065	21	0.1667	2.065
22	0.1750	2.065	23	0.1833	2.065	24	0.1917	2.065
25	0.2000	2.065	26	0.2083	2.065	27	0.2167	2.065
28-	0.2250	2.065	29	0.2417	2.059	30	0.2583	2.059
31	0.2750	2.059	32	0.2917	2.059	33	0.3083	2.059
34	0.3250	2.059	35	0.3417	2.059	36	0.3583	2.046
37	0.3750	2.053	38	0.3917	2.053	39	0.4083	2.053
40	0.4250	2.053	41	0.4417	2.053	42	0.4583	2.053
43	0.4750	2.046	44	0.4917	2.046	45	0.5083	2.046
46	0.5250	2.046	47	0.5417	2.046	48	0.5583	2.027
49	0.5750	2.040	50	0.5917	2.046	51	0.6083	2.046

STEWART ANG BASE MW-11 Kim Kutawski, Aneptek Corp.

No.	Time	Drawdown	No.	Time	Drawdown	No.	Time	Drawdown
2	(min)	(ft)		(min)	(ft)		(min)	(ft)
	0 (250	2 040	53	0.6417	2.040	54	0.6583	2.040
52	0.6250 0.6750	2.040 2.040	56	0.6917	2.040	57	0.7083	2.040
55 58″	0.7250	2.040	59	0.7417	2.010	60	0.7583	2.034
61	0.7250	2.034	62	0.7917	2.034	63	0.8083	2.034
64 <sup>±</sup>	0.7750	2.034	65	0.8417	2.034	66	0.8583	2.027
67	0.8750	2.027	68	0.8917	2.027	69	1.0917	2.021
70 <sup>§</sup>	1.2917	2.008	71	1.4917	1.995	72	1.6917	1.989
73 ·	1.8917	1.976	74	2.0917	1.951	<b>7</b> 5	2.2917	1.957
76	2.4917	1.951	77	2.6917	1.938	78	2.8917	1.925
79	3.0917	1.919	80	3.2917	1.912	81	3.4917	1.893
82 <sup>.</sup>	3.6917	1.893	83	3.8917	1.887	84	4.0917	1.874
85°	4.2917	1.868	86	4.4917	1.855	87	4.6917	1.849
88	4.8917	1.842	89	5.0917	1.830	90	5.2917	1.823
91_	5.4917	1.817	92	5.6917	1.804	93	5.8917	1.798
94	6.0917	1.785	95	6.2917	1.778	96	6.4917	1.772
97	6.6917	1.753	98	6.8917	1.759	99	7.0917	1.747
100	7.2917	1.740	101	7.4917	1.734	102	7.6917	1.721
103,	7.8917	1.715	104	8.0917	1.708	105	8.2917	1.702
106	8.4917	1.696	107	8.6917	1.683	108	8.8917	1.676
109	9.0917	1.664	110	9.2917	1.683	111	9.4917	
112	9.6917	1.645	113	9.8917	1.638	114	10.8917	
115	11.8917	1.562	116	12.8917	1.523	117	13.8917	
118	14.8917	1.453	119	15.8917	1:421	120	16.8917	
121	17.8917	1.358	122	18.8917	1.326	123	19.8917	
124	20.8917	1.268	125	21.8917		126	22.8917	
127	23.8917	1.185	128	24.8917		129	25.8917	•
130	26.8917	1.103	131	27.8917		132	28.8917	
133	29.8917	1.032	134	30.8917		135	31.8917	
136	32.8917		137	33.8917		138	34.8917	
139	35.8917		140	36.8917		141	37.8917	
142	38.8917		143	39.8917		144	40.8917	
145	41.8917		146	42.8917		147	43.8917	
148	44.8917		149	45.8917		150	46.8917	
151	47.8917		152	48.8917		153	49.8917	
154	50.8917		155	51.8917		156	52.8917 55.8917	
157_	53.8917		158	54.8917		159		
160	56.8917		161	57.8917		162 165	58.8917 61.8917	
163	59.8917		164	60.8917		168	64.8917	
166	62.8917		167	63.8917		171	67.8917	
169	65.8917		170 173	66.8917 69.8917		174	70.8917	
172	68.8917		176	72.8917		177	73.8917	
175	71.8917 74.8917		179	75.8917		180	76.8917	
178	/4.831/	0.303	113	13.0311	0.550	_00		

STEWART ANG BASE

MW-11

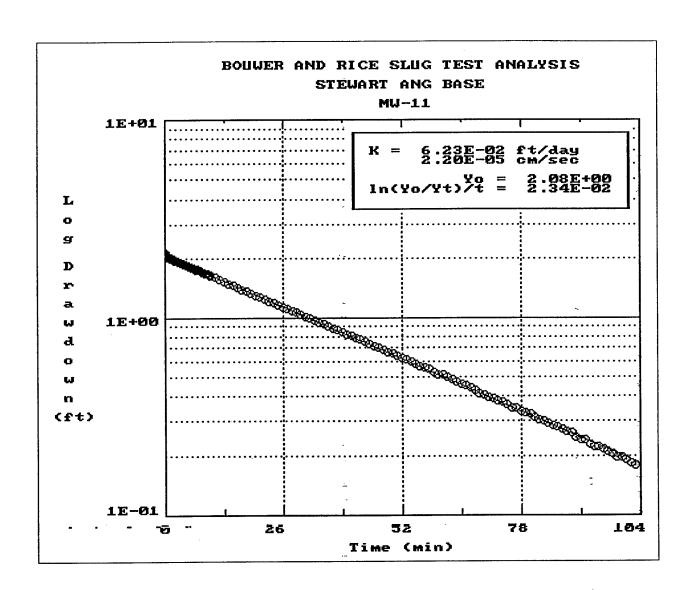
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
181	77.8917	0.337	182	78.8917	0.331	183	79.8917	0.325
184	80.8917	0.312	185	81.8917	0.306	186	82.8917	0.299
187	83.8917	0.293	188	84.8917	0.286	189	85.8917	0.280
190	86.8917	0.274	191	87.8917	0.267	192	88.8917	0.261
193	89.8917	0.248	194	90.8917	0.242	195	91.8917	0.242
196	92.8917	0.229	197	93.8917	0.223	198	94.8917	0.223
199	95.8917	0.216	200	96.8917	0.210	201	97.8917	0.204
202	98.8917	0.197	203	99.8917	0.197	204	100.8917	0.191
205	101.8917	0.184	206	102.8917	0.178	207	0.0000	1.000

STEWART ANG BASE

MW-11

Kim Kutawski, Aneptek Corp.



# STEWART ANG BASE MW-12 Kim Kutawski, Aneptek Corp.

### Results

Hydraulic Conductivity: 6.45E-02 ft/day 2.27E-05 cm/sec Y-Intercept (Yo): 1.86E+00 ft Well Screen Ratio (Le/rw): 14.6 Dimensionless Parameter A: 1.99 Dimensionless Parameter B: 0.30 Slope of Line [ln(Yo/Yt)/t]: 3.676E-02 1/min Well Parameters (Rc^2 / 2\*Le): 6.972E-04 ft Dimensionless Ratio [ln(Re/rw)]: 1.747 Effective Radius [Re]: 1.97 ft 5.92E+01 ft<sup>3</sup> Volume Tested [rw<Vol<Re]:</pre>

### Well/Aquifer Parameters

Depth of well: 6.73 ft
Length of well screen: 5.00 ft
Saturated thickness: 14.73 ft
Diameter of the well casing: 0.167 ft
Diameter of the well filter: 0.687 ft

	•						
Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
0.0001	1.987	2	0.0083	1.994	3	0.0167	1.987
0.0250	1.981	5	0.0333	1,981	6	0.0417	1.975
0.0500	1.968	8	0.0583	1.962	9	0.0667	1.962
0.0750	1.962	11	0.0833	1.956	12	0.0917	1.956
0.1000	1.949	14	0.1083	1.943	15	0.1167	1.943
0.1250	1.943	17	0.1333	1.943	18	0.1417	1.937
0.1500	1.937	20	0.1583	1.937	21	0.1667	1.930
0.1750	1.930	23	0.1833	1.930	24	0.1917	1.924
0.2000	1.924	26	0.2083	1.917	27	0.2167	1.917
0.2250	1.917	29	0.2417	1.911	30	0.2583	1.911
0.2750	1.905	32	0.2917	1.905	33	0.3083	1.898
0.3250	1.898	35	0.3417	1.892	36	0.3583	1.892
0.3750	1.892	38	0.3917	1.886	39	0.4083	1.886
0.4250	1.879	41	0.4417	1.879	42	0.4583	1.873
0.4750	1.873	44	0.4917	1.867	45	0.5083	1.867
0.5250	1.860	47	0.5417	1.860	48	0.5583	1.860
0.5750	1.854	50	0.5917	1.854	51	0.6083	1.848
	(min)  0.0001 0.0250 0.0500 0.0750 0.1000 0.1250 0.1500 0.2250 0.2750 0.3250 0.3750 0.4250 0.4750 0.5250	(min) (ft)  0.0001 1.987 0.0250 1.981 0.0500 1.968 0.0750 1.962 0.1000 1.949 0.1250 1.943 0.1500 1.937 0.1750 1.930 0.2000 1.924 0.2250 1.917 0.2750 1.905 0.3250 1.898 0.3750 1.892 0.4250 1.879 0.4750 1.873 0.5250 1.860	(min) (ft)  0.0001 1.987 2 0.0250 1.981 5 0.0500 1.968 8 0.0750 1.962 11 0.1000 1.949 14 0.1250 1.943 17 0.1500 1.937 20 0.1750 1.930 23 0.2000 1.924 26 0.2250 1.917 29 0.2750 1.905 32 0.3250 1.898 35 0.3750 1.892 38 0.4250 1.879 41 0.4750 1.873 44 0.5250 1.860 47	(min)     (ft)     (min)       0.0001     1.987     2     0.0083       0.0250     1.981     5     0.0333       0.0500     1.968     8     0.0583       0.0750     1.962     11     0.0833       0.1000     1.949     14     0.1083       0.1250     1.943     17     0.1333       0.1500     1.937     20     0.1583       0.1750     1.930     23     0.1833       0.2000     1.924     26     0.2083       0.2250     1.917     29     0.2417       0.2750     1.905     32     0.2917       0.3250     1.898     35     0.3417       0.3750     1.892     38     0.3917       0.4250     1.879     41     0.4417       0.4750     1.873     44     0.4917       0.5250     1.860     47     0.5417	(min)         (ft)         (min)         (ft)           0.0001         1.987         2         0.0083         1.994           0.0250         1.981         5         0.0333         1.981           0.0500         1.968         8         0.0583         1.962           0.0750         1.962         11         0.0833         1.956           0.1000         1.949         14         0.1083         1.943           0.1250         1.943         17         0.1333         1.943           0.1500         1.937         20         0.1583         1.937           0.1750         1.930         23         0.1833         1.930           0.2000         1.924         26         0.2083         1.917           0.2250         1.917         29         0.2417         1.911           0.2750         1.905         32         0.2917         1.905           0.3250         1.898         35         0.3417         1.892           0.4250         1.879         41         0.4417         1.879           0.4750         1.860         47         0.5417         1.860	(min)     (ft)     (min)     (ft)       0.0001     1.987     2     0.0083     1.994     3       0.0250     1.981     5     0.0333     1.981     6       0.0500     1.968     8     0.0583     1.962     9       0.0750     1.962     11     0.0833     1.956     12       0.1000     1.949     14     0.1083     1.943     15       0.1250     1.943     17     0.1333     1.943     18       0.1500     1.937     20     0.1583     1.937     21       0.1750     1.930     23     0.1833     1.930     24       0.2000     1.924     26     0.2083     1.917     27       0.2250     1.917     29     0.2417     1.911     30       0.2750     1.905     32     0.2917     1.905     33       0.3250     1.898     35     0.3417     1.892     36       0.3750     1.892     38     0.3917     1.886     39       0.4250     1.879     41     0.4417     1.879     42       0.4750     1.860     47     0.5417     1.860     48	(min)         (ft)         (min)         (ft)         (min)           0.0001         1.987         2         0.0083         1.994         3         0.0167           0.0250         1.981         5         0.0333         1.981         6         0.0417           0.0500         1.968         8         0.0583         1.962         9         0.0667           0.0750         1.962         11         0.0833         1.956         12         0.0917           0.1000         1.949         14         0.1083         1.943         15         0.1167           0.1250         1.943         17         0.1333         1.943         18         0.1417           0.1500         1.937         20         0.1583         1.937         21         0.1667           0.1750         1.930         23         0.1833         1.930         24         0.1917           0.2000         1.924         26         0.2083         1.917         27         0.2167           0.2250         1.917         29         0.2417         1.911         30         0.2583           0.3750         1.898         35         0.3417         1.892         36

STEWART ANG BASE

MW-12

Kim Kutawski, Aneptek Corp.

					••			
No.	Time	Drawdown	No.	Time	Drawdown	No.	Time	Drawdown
	(min)	(ft)		(min)	(Ťt)		(min)	(ft)
	(	(20)		(111217)	(20)		(111217)	(20)
52	0.6250	1.848	53	0.6417	1.841	54	0.6583	1.841
55	0.6750	1.841	56	0.6917	1.841	57	0.7083	1.835
58	0.7250	1.835	59	0.7417	1,.829	60	0.7583	1.829
61	0.7750	1.829	62	0.7917	1.822	63	0.8083	1.822
64	0.8250	1.816	65	0.8417	1.816	66	0.8583	1.816
67	0.8750	1.809	68	0.8917	1.809	69	1.0917	1.784
70	1.2917	1.759	71	1.4917	1.740	72	1.6917	1.721
73	1.8917	1.695	74	2.0917	1:676	75	2.2917	1.663
76	2.4917	1.644	77	2.6917	1.625	78	2.8917	
79	3.0917	1.594	80	3.2917	1.581	81	3.4917	
82	3.6917	1.549	83	3.8917	1:536	84	4.0917	1.524
85	4.2917	1.511	86		1:492	87	4.6917	1.479
88	4.8917	1.466	89	5.0917	1.460	90	5.2917	1.447
91	5.4917	1.435	92	5.6917	1.422	93	5.8917	1.409
94	6.0917	1.397	95	6.2917	1,390	96	6.4917	1.378
97	6.6917	1.371	98	6.8917	1.358	99	7.0917	1.346
100	7.2917	1.339	101	7.4917	1.327	102	7.6917	1.320
103	7.8917	1.308	104	8.0917	1,301	105	8.2917	1.289
106	8.4917	1.282	107	8.6917	1.270	108	8.8917	1.263
109	9.0917	1.257	110	9.2917	1.244	111	9.4917	1.231
112	9.6917	1.225	113	9.8917	1.219	114	10.8917	1.174
115	11.8917	1.136	116	12.8917	1.098	117	13.8917	1.060
118	14.8917	1.028	119	15.8917	0.996	120	16.8917	0.971
121	17.8917		122	18.8917	0:908	123	19.8917	
124	20.8917	0.857	125	21.8917	0.831	126	22.8917	
127	23.8917	0.787	128	24.8917	0.761	129	25.8917	
130	26.8917	0.723	131	27.8917		132	28.8917	0.685
133	29.8917	0.666	134	30.8917		135	31.8917	
136	32.8917	0.615	137	33.8917		138	34.8917	
139	35.8917		140	36.8917		141	37.8917	
142	38.8917		143	39.8917		144	40.8917	
145	41.8917		146	42.8917		147	43.8917	
148	44.8917		149	45.8917		150	46.8917	0.431
151	47.8917	0.425	152	48.8917	0.419	153	49.8917	0.406
154	50.8917	0.400	155	51.8917		156	52.8917	0.380
157	53.8917		158	54.8917		159	55.8917	0.355
160	56.8917		161	57.8917		162	58.8917	0.330
163	59.8917		164	60.8917		165	61.8917	
166	62.8917		167			168	64.8917	
169	65.8917		170	66.8917		171	67.8917	
172	68.8917		173	69.8917		174	70.8917	
175	71.8917		176	72.8917		177	73.8917	
178	74.8917	0.234	179	75.8917	0.228	180	76.8917	0.228

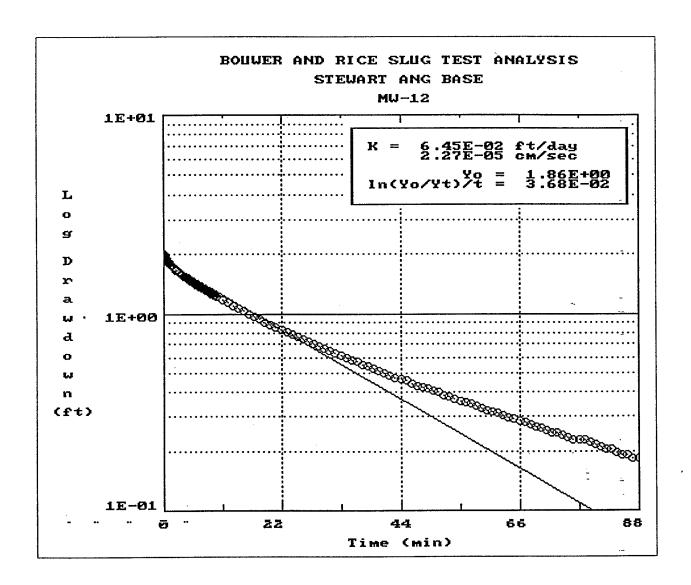
STEWART ANG BASE

MW-12

Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
181	77.8917	0.228	182	78.8917	0.222	183	79.8917	0.215
184	80.8917	0.209	185	81.8917	0.203	186	82.8917	0.203
187	83.8917	0.196	188	84.8917	0.190	189	85.8917	0.190
190	86 -8917	0.184	191	87.8917	0.184	192	0.0000	1.000

STEWART ANG BASE
MW-12
Kim Kutawski, Aneptek Corp.



# STEWART ANG BASE MW-13 Kim Kutawski, Aneptek Corp.

### Results

3.88E-01 ft/day Hydraulic Conductivity: 1.37E-04 cm/sec Y-Intercept (Yo): 4.61E-01 ft Well Screen Ratio (Le/rw): 29.1 Dimensionless Parameter A: 2.48 Dimensionless Parameter B: 0.37 Slope of Line [ln(Yo/Yt)/t]: 6.640E-02 1/min 2.011E-03 ft Well Parameters (Rc^2 / 2\*Le): Dimensionless Ratio [ln(Re/rw)]: 2.016 Effective Radius [Re]: 2.58 2.05E+02 ft<sup>3</sup> Volume Tested [rw<Vol<Re]:</pre>

### Well/Aquifer Parameters

Depth of well: 7.34 ft
Length of well screen: 10.00 ft
Saturated thickness: 27.84 ft
Diameter of the well casing: 0.166 ft
Diameter of the well filter: 0.687 ft
Porosity of filter pack: 0.30

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0001	1.394	2	0.0084	1.368	3	0.0167	1.343
4	0.0250	1.330	5	0.0334	1.317	6	0.0417	1.304
7	0.0500	1.273	8	0.0584	1.254	9	0.0667	1.234
10	0.0750	1.222	11	0.0834	- <b>1.203</b>	12	0.0917	1.190
13	0.1000	1.177	14	0.1084	1.158	15	0.1167	1.145
16	0.1250	1.133	17	0.1334	1.120	18	0.1417	1.107
19	0.1500	1.094	20	0.1584	1.075	21	0.1667	1.063
22	0.1750	1.050	23	0.1834	1.037	24	0.1917	1.024
25	0.2000	1.012	26	0.2084	0.999	27	0.2167	0.986
28	0.2250	0.974	29	0.2334	0.954	30	0.2417	0.948
31	0.2500	0.935	32	0.2584	0.923	33	0.2667	0.916
34	0.2750	0.903	35	0.2834	0.891	36	0.2917	0.884
37	0.3084	0.859	38	0.3250	0.840	39	0.3417	0.821
40	0.3584	0.802	41	0.3750	0.783	42	0.3917	0.763
43	0.4084	0.751	44	0.4250	0.738	45	0.4417	0.719
46	0.4584	0.706	47	0.4750	0.687	48	0.4917	0.681

STEWART ANG BASE

MW-13

Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
49	0.5084	0.668	50	0.5250	0.655	51	0.5417	0.643
52	0.5584	0.630	53	0.5750	0.617	54	0.5917	0.611
55	0.6084	0.604	56	0.6250	0.592	57	0.6417	0.585
58	0.6584	0.579	59	0.6750	0.572	60	0.6917	0.566
61	0.7084	0.560	62	0.7250	0.553	63	0.7417	0.547
64	0.7584	0.541	65	0.7750	0.534	66	0.7917	0.528
67	0.8084	0.528	68	0.8250	0.522	69	0.8417	0.522
70	0.8584	0.522	71	0.8750	0.509	72	0.8917	0.509
73	0.9084	0.509	74	0.9250	0.502	75	0.9417	0.502
76	0.9584	0.496	77	1.1584	0.464	78	1.3584	0.439
79	1.5584	0.420	80	1.7584	0.407	81	1.9584	0.401
82	- 2.1584	0.394	83	2.3584	0.394	84	2.5584	0.375
85	2.7584	0.375	86	2.9584	0.369	87	3.1584	0.362
88	3.3584	0.362	89	3.5584	0.356	90	3.7584	
91	- 3.9584	0.343	92	4.1584	0.350	93	4.3584	~
94	<sup></sup> 4.5584	0.343	95	4.7584	0.337	96	4.9584	0.337
97	5.1584	0.337	98	5.3584		99	5.5584	
100	5.7584	0.331	101	5.9584		102	6.1584	
103	6.3584		104	6.5584		105	6.7584	
106	6.9584	0.318	107	7.1584		108	7.3584	
109	7.5584		110	7.7584		111	7.9584	
112	8.1584		113	8.3584	**	114	8.5584	
115	8.7584		116	8.9584		117	9.1584	
118	9.3584		119	9.5584		120	9.7584	
121	9.9584		122	10.9584		123	11.9584	
124	12.9584		125	13.9584		126	14.9584	-
127	15.9584		128	16.9584		129	17.9584	
130	18.9584		131	19.9584		132	20.9584	
133	21.9584		134	22.9584		135	23.9584	
136	24.9584		137	25.9584		138	26.9584	
139	27.9584		140	28.9584		141	29.9584	
142	30.9584		143	31.9584		144 147	32.9584 35.9584	
145	33.9584		146 149	34.9584 37.9584		150	38.9584	0.216
148	36.9584	0.222		40.9584	0.216	153	41.9584	
151	39.9584		152 155	43.9584		156	44.9584	
154	42.9584		158	46.9584		159	47.9584	
157 160	45.9584 48.9584		161	49.9584		162	50.9584	
			164	52.9584		165	53.9584	
163 166	51.9584 54.9584		167	55.9584		168	56.9584	
169	57.9584		170	58.9584		171	59.9584	
172	60.9584		173	61.9584		174	62.9584	
175	63.9584		176	64.9584		177	65.9584	
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STEWART ANG BASE

MW-13

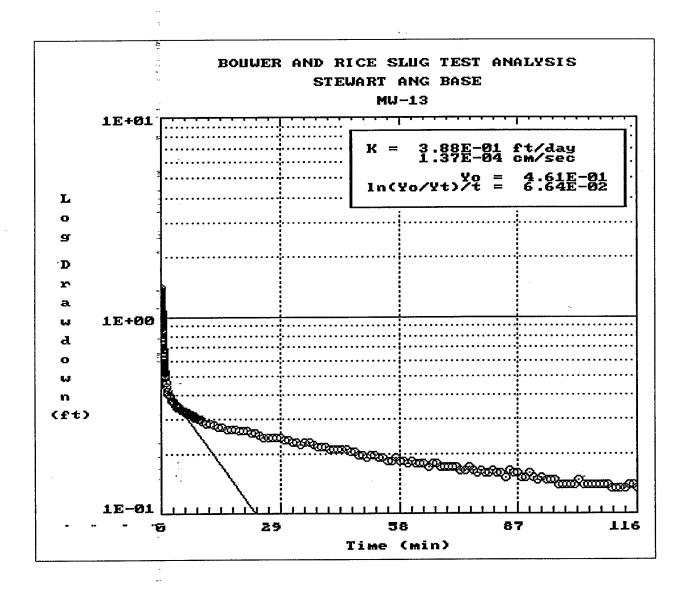
Kim Kutawski, Aneptek Corp.

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
178	66.9584	0.178	179	67.9584	0.171	180	68.9584	0.171
181	69.9584	0.171	182	70.9584	0.171	183	71.9584	0.171
184	72.9584	0.165	185	73.9584	0.165	186	74.9584	0.171
187	75.9584	0.165	188	76.9584	0.159	189	77.9584	0.165
190	78.9584	0.159	191	79.9584	0.159	192	80.9584	0.165
193	81.9584	0.159	194	82.9584	0.159	195	83.9584	0.152
196	84.9584	0.165	197	85.9584	0.159	198	86.9584	0.159
199	87.9584	0.152	200	88.9584	0.152	201	89.9584	0.159
202	90.9584	0.152	203	91.9584	0.146	204	92.9584	0.152
205	93.9584	0.146	206	94.9584	0.146	207	95.9584	0.146
208	96.9584	0.140	209	97.9584	0.140	210	98.9584	0.140
211	99.9584	0.140	212	100.9584	0.140	213	101.9584	0.146
214	102.9584	0.140	215	103.9584	0.140	216	104.9584	0.140
217	105.9584	0.140	218	106.9584	0.140	219	107.9584	0.140
220	108.9584	0.140	221	109.9584	0.133	222	110.9584	0.133
223	111.9584	0.133	224	112.9584	0.133	225	113.9584	0.140
226	114.9584	0.140	227	115.9584	0.133	228	0.0000	1.000

STEWART ANG BASE

MW-13

Kim Kutawski, Aneptek Corp.



Stewart ANG PPBA RI JMW-107 RE-ANALYSIS AMK - Aneptek Corp

### Results

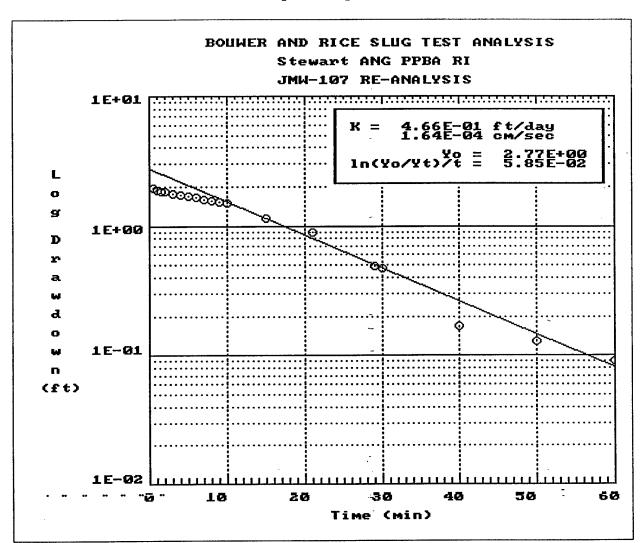
Hydraulic Conductivity:	4.66E-01 1.64E-04	ft/day cm/sec
Y-Intercept (Yo):	2.77E+00	ft
Well Screen Ratio (Le/rw):	15.2	
Dimensionless Parameter C:	1.51	
Slope of Line [ln(Yo/Yt)/t]:	5.853E-02	1/min
Well Parameters (Rc^2 / 2*Le):	3.749E-03	ft
Dimensionless Ratio [ln(Re/rw)]:	1.475	
Effective Radius [Re]:	1.44	ft
Volume Tested [rw <vol<re]:< td=""><td>3.10E+01</td><td>ft^3</td></vol<re]:<>	3.10E+01	ft^3

### Well/Aquifer Parameters

Depth of well: 2.21 ft
Length of well screen: 5.00 ft
Saturated thickness: 2.21 ft
Diameter of the well casing: 0.166 ft
Diameter of the well filter: 0.660 ft
Porosity of filter pack: 0.30

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.5000	1.980	2	1.0000	1.900	3	1.5000	1.860
4	2.0000	1.840	5	3.0000	1.780	6	4.0000	1.750
7	5.0000	1.690	8	6.0000	1.650	9	7.0000	1.610
10	8.0000	1.570	11	9.0000	1.530	12	10.0000	1.490
13	15.0000	1.140	14	21.0000	0.890	15	29.0000	0.490
16	30.0000	0.470	17	40.0000	0.170	18	50.0000	0.130
19	60.0000	0.090						

Stewart ANG PPBA RI JMW-107 RE-ANALYSIS AMK - Aneptek Corp



Stewart ANG PPBA RI JMW-108 RE-ANALYSIS AMK - Aneptek Corp

### Results

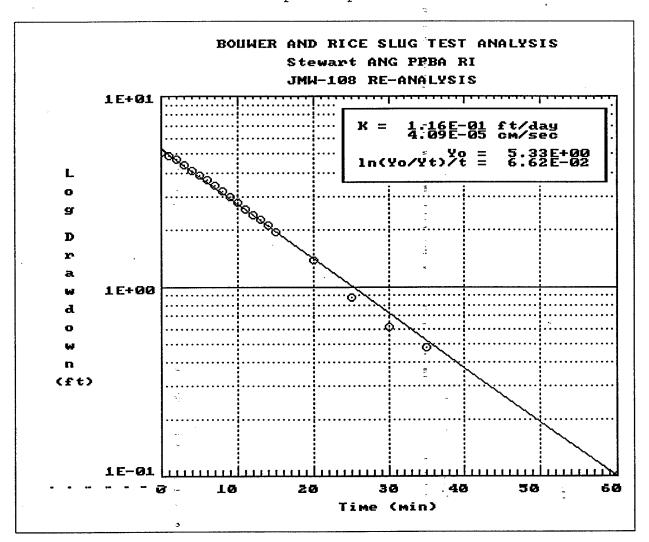
Hydraulic Conductivity: 1.16E-01 ft/day 4.09E-05 cm/sec 5.33E+00 ft Y-Intercept (Yo): Well Screen Ratio (Le/rw): 15.2 Dimensionless Parameter A: 2.01 Dimensionless Parameter B: 0.31 Slope of Line [ln(Yo/Yt)/t]: 6.620E-02 1/min 6.889E-04 ft Well Parameters (Rc^2 / 2\*Le): Dimensionless Ratio [ln(Re/rw)]: 1.765 Effective Radius [Re]: 1.93 ft Volume Tested [rw<Vol<Re]:</pre> 5.67E+01 ft<sup>3</sup>

### Well/Aquifer Parameters

Depth of well: 5.19 ft
Length of well screen: 5.00 ft
Saturated thickness: 7.02 ft
Diameter of the well casing: 0.166 ft
Diameter of the well filter: 0.660 ft

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)
1	0.0000	5.100	2	1.0000	4.880	3	2.0000	4.670
4	3.0000	4.410	5	4.0000	4.090	s 6	5.0000	3.880
7	6.0000	3.660	8	7.0000	3.420	9	8.0000	3.200
10	9.0000	2.970	11	10.0000	2.780	12	11.0000	2.580
13	12.0000	2.410	14	13.0000	2.260	15	14.0000	2.110
16	15.0000		17	20.0000	1.380	18	25.0000	0.880
19	30.0000		20	35.0000	0.480	21	60.0000	0.100

Stewart ANG PPBA RI JMW-108 RE-ANALYSIS AMK - Aneptek Corp



Stewart ANG PPBA RI JMW-109 RE-ANALYSIS AMK - Aneptek Corp

### Results

Hydraulic Conductivity: 5.34E-01 ft/day
1.88E-04 cm/sec
Y-Intercept (Yo): 1.91E+00 ft
Well Screen Ratio (Le/rw): 15.2
Dimensionless Parameter A: 2.01
Dimensionless Parameter B: 0.31
Slope of Line [ln(Yo/Yt)/t]: 6.341E-02 1/min
Well Parameters (Rc^2 / 2\*Le): 3.749E-03 ft

Dimensionless Ratio [ln(Re/rw)]: 1.561

Effective Radius [Re]: 1.57 ft

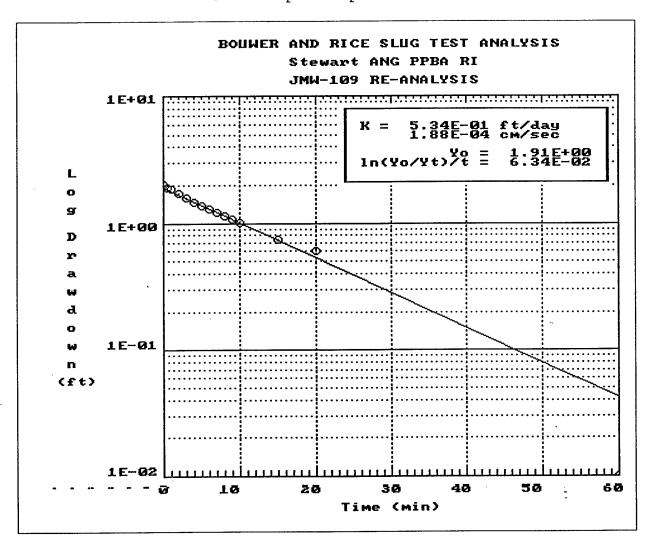
Volume Tested [rw<Vol<Re]: 3.71E+01 ft^3

### Well/Aquifer Parameters

Depth of well: 2.69 ft
Length of well screen: 5.00 ft
Saturated thickness: 2.84 ft
Diameter of the well casing: 0.166 ft
Diameter of the well filter: 0.660 ft
Porosity of filter pack: 0.30

No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft)	No.	Time (min)	Drawdown (ft-)
1	0.0000	2.040	2	0.5000	1.930	3	1.0000	1.870
4	2.0000	1.730	5	3.0000	1.590	6	4.0000	1.480
7	5.0000	1.390	8	6.0000	1.300	9	7.0000	1.220
10	8.0000	1.150	11	9.0000	1.080	12	10.0000	1.010
13	15.0000	0.740	14	20.0000	0.610	15	60.0000	0.010

Stewart ANG PPBA RI JMW-109 RE-ANALYSIS AMK - Aneptek Corp



# APPENDIX H CHAIN OF CUSTODY FORMS

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# Envirolest Laboratories Inc.

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315 Fullerton Avenue, Newburgh, NY 12550 (914) 562-0890, FAX (914) 562-0841787

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# APPENDIX I LABORATORY DATA SUMMARY PACKAGES



315 Fullerton Avenue Newburgh, NY 12550

### SAMPLE DATA SUMMARY PACKAGE

Aneptek Corp. Natick, MA

Project: Stewart Site 1 ETL Labs #: 155817/155893 Matrix: Water

1 of 1

# SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory	Matrix	Date	Date Rec'd	Date	Date
Sample ID		Collected	at Lab	Extracted	Analyzed
155817-01 155817-02 155817-03 155893-05 155893-07 155893-08 155893-10 155893-10 155893-11 155893-12	Water Water Water Water Water Water Water Water Water Water Water Water	11/29/95 11/29/95 11/29/95 11/29/95 11/30/95 11/30/95 11/30/95 11/30/95 11/30/95 11/30/95	11/29/95 11/29/95 11/29/95 11/30/95 11/30/95 11/30/95 11/30/95 11/30/95 11/30/95 11/30/95		12/6/95 12/6/95 12/6/95 12/7/95 12/7/95 12/6/95 12/6/95 12/6/95 12/6/95 12/6/95

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# SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory  Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
155817-01	Water	TKN BOD Alk, Color, Cr+6 NO3-NO2, TDS Br, Cl Hg COD, Pb, Se, Phenol NH3 TOC As Tl Cn Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V, Zn, Hardness SO4	11/29/95	11/27/95 11/29/95 11/30/95 12/1/95 12/4/95 12/5/95 12/6/95 12/7/95 12/8/95 12/13/95 12/13/95 12/14/95 12/15/95 12/19/95
155817-02	Water	TKN BOD Alk, Color, Cr+6 NO3-NO2, TDS Br, Cl Hg COD, Pb, Se, Phenol NH3 TOC As Tl Cn Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V, Zn, Hardness SO4	11/29/95	11/27/95 11/29/95 11/30/95 12/1/95 12/4/95 12/5/95 12/6/95 12/7/95 12/8/95 12/13/95 12/14/95 12/15/95 12/19/95

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# SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES page 2

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
155893-01		BOD, Color, Cr+6, NO3-NO2 Br, TKN ALK, TDS COD, Phenol NH3, TOC Cl As, Pb Se Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V, Zn, Hardness, Tl	11/30/95	12/1/95 12/4/95 12/5/95 12/6/95 12/7/95 12/8/95 12/15/95 12/18/95 12/19/95 12/20/95
155893-02		Cn Hg SO4 BOD, Color, Cr+6, NO3-NO2 Br, TKN ALK, TDS COD, Phenol NH3, TOC Cl As, Pb Se Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V, Zn, Hardness, Tl Cn Hg SO4	11/30/95	12/21/95 12/22/95 12/27/95 12/1/95 12/4/95 12/5/95 12/6/95 12/7/95 12/15/95 12/15/95 12/18/95 12/19/95 12/20/95 12/20/95 12/21/95 12/22/95 12/27/95

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### SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES page 3

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
155893-03		BOD, Color, Cr+6, NO3-NO2 Br, TKN ALK, TDS COD, Phenol NH3, TOC Cl As, Pb Se Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V,	11/30/95	12/1/95 12/4/95 12/5/95 12/5/95 12/6/95 12/7/65 12/8/95 12/15/95 12/18/95 12/19/95 12/20/95
155893-04		Zn, Hardness, Tl Cn Hg SO4 BOD, Color, Cr+6, NO3-NO2 Br, TKN ALK, TDS COD, Phenol NH3, TOC Cl As, Pb Se Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V, Zn, Hardness, Tl Cn	11/30/95	12/21/95 12/22/95 12/27/95 12/1/95 12/1/95 12/4/95 12/5/95 12/6/95 12/7/95 12/15/95 12/15/95 12/18/95 12/19/95 12/20/95
ł		Hg SO4		12/22/95

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# SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES page 4

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
155893-05	Water	Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, Tl, Hardness, V, Zn As, Pb Se Cn	11/30/95	12/20/95 12/18/95 12/19/95 12/21/95 12/22/95 12/6/95
155893-06	Water	Phenol Bod, Color, Cr+6, NO3-NO2 Br ALK, TDS, TKN COD NH3 TOC Cl SO4		12/1/95 12/4/95 12/5/95 12/6/95 12/7/95 12/8/95 12/15/95 12/27/95
155893-08	Water	BOD, Color, Cr+6, NO3-NO2 Br, TKN ALK, TDS COD, Phenol NH3, TOC Cl As, Pb Se Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V, Zn, Hardness, Tl	11/30/95	12/1/95 12/4/95 12/5/95 12/6/95 12/7/95 12/8/95 12/18/95 12/19/95 12/20/95
		Cn Hg SO4		12/21/95 12/22/95 12/27/95

### SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES page 4

Laboratory	Matrix	Metals	Date Rec'd	Date
Sample ID		Requested	at Lab	Analyzed
155893-14	Water	BOD, Color, Cr+6, NO3-NO2 Br, TKN ALK, TDS COD, Phenol NH3, TOC Cl As, Pb Se Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, V, Zn, Hardness, Tl Cn Hg SO4	11/30/95	12/1/95 12/4/95 12/5/95 12/6/95 12/7/95 12/8/95 12/15/95 12/18/95 12/19/95 12/20/95 12/21/95 12/22/95 12/27/95

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### CASE NARRATIVE

Client: Aneptek Corp.
Date: 1/18/96

ETL Lab No. 155817 and 155893

### Volatiles

### Calibration

Due to poor purging efficiency the calibration levels of acrylonitrile, iodomethane, carbon disulfide, vinyl acetate and t-1,4-dichloro-2-butene are 10, 20, 50, 100 and 200 ug/l.

### Wet Chemistry

### Phenols

Due to insufficient sample volume, the following samples were distilled for total phenol using 200ml instead of 500ml.

MW-09-112995D (155817-01D)

MW-09-112995S (155817-01S)

MW-05-113095D (155893-01D)

MW-05-113095S (155893-01S)

### Cyanide

Due to insufficient sample volume, the following samples were distilled for total cyanide using 250ml instead of 500ml.

MW-09-112995D (155817-01D)

MW-09-112995S (155817-01S)

MW-05-113095D (155893-01D)

MW-05-113095S (155893-01S)

### Total Kjeldahl Nitrogen

The matrix spike falls outside the EnviroTest established control limits of 85-120% for laboratory number 155817. The percent recovery was 165%.

### **Alkalinity**

A matrix duplicate/matrix spike was not performed on a sample from laboratory number 155817. The matrix duplicate/matrix spike was performed on a sample that was analyzed at the same time as 155817. The associated matrix duplicate/matrix spike was within the EnviroTest established control limits.

The following samples were diluted for alkalinity at the indicated amount due to concentrations that exceed the calibration range:

MW-11-113095 (155893-08): 1.25x MW-07-113095 (155893-14): 4x

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### CASE NARRATIVE

Client: Aneptek Corp.
Date: 1/18/96

ETL Lab No. 155817 and 155893

Page-2-

### Biochemical Oxygen Demand

A duplicate was not performed on a sample from laboratory number 155817. The duplicate was performed on a sample that was analyzed at the same time as laboratory number 155817.

### <u>Bromide</u>

The matrix spike for bromide falls outside the EnviroTest established control limits of 72-125% for laboratory number. The percent recovery was 135%.

### Chloride

The following samples were diluted for chloride at the indicated amount due to sample matrix:

MW-09-112995DL (155817-01DL): 5x MW-10-112995DL (155817-02DL): 5x

### Hexavalent Chromium

The water laboratory control sample (LCSW) for hexavalent chromium falls outside the EnviroTest established control limits of 89-100% for laboratory numbers 155817 and 155893. The percent recovery was 85% for both analytical runs.

### Nitrate/Nitrite

The water laboratory control sample (LCSW) for nitrate/nitrite falls outside the EnviroTest established control limits of 75-110% for laboratory number 155817. The percent recovery was 111%.

The following sample was diluted for nitrate/nitrite at the indicated amount due to concentrations that exceed the calibration range:

MW-06-113095DL (155893-03DL): 4x

### Sulfate

The following samples were diluted for sulfate at the indicated amount due to concentrations that exceed the calibration range:

.- MW-01-113095DL (155893-06DL): 2x

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### **CASE NARRATIVE**

Client: Aneptek Corp. **Date:** 1/18/96

ETL Lab No. 155817 and 155893

Page-3-

### Inorganics

### Matrix Spike

The predigestion spike recovery for the following samples was outside the acceptable limits:

MW-09-112995S (155817-01S): silver and lead

MW-05-113095S (155893-01S): silver and zinc

The data is qualified accordingly.

### Post Digestion Spike

A post digestion spike was performed for sample number MW-05-113095P (155893-01P) due to zinc recovery outside the acceptable limit in the predigestion spike.

### Matrix Duplicate

The duplicate analysis for the following samples contains the indicated parameters that fall outside the acceptable limits:

MW-09-112995D (155817-01D): chromium and zinc

MW-05-113095D (155893-01D): zinc

The data is qualified accordingly.

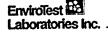
### Serial Dilution

The serial dilution results for the following samples contain the indicated parameters that exceed the acceptable 10% control limit:

MW-09-112995L (155817-01L): barium, zinc, potassium and iron

MW-05-113095L (155893-01L): sodium, zinc, magnesium, calcium and manganese

The data is qualified accordingly.



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# Volatile Organics Analysis Data Sheet Form I VOA

Client ID: MW-09-112995

Date Collected: 29-NOV-95

ETL Sample Number: 155817-01

Date Received: 29-NOV-95

Client Name: ANEPTEK CORP.

Date Extracted:

Project Name: STEWART

Date Analyzed: 06-DEC-95

% Solid: NA

Report Date: 18-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4472

Level: LOW

Dilution Factor: 1.00

			tection πit	Conc.		Data
CAS NO.	Compound	ug		ug/l		Qualifier
74-87-3	Ch]oromethane	10	to a site of		1.	Ŋ ·
<b>74-83-9</b>	Bromomethane	10				Ü
75-01-4	Vinyl chloride	10	4 1			กิ
75-00-3	Chloroethane	10		1		3
75-09-2	Methylene chloride	10	•			IJ.
67-64-1	Acetone	10 10		•		Ų a
75-15-0 75-35-4	Carbon disulfide 1.1-Dichloroethene	10		1		<b>]</b> []
75-35-4 75-34-3	1.1-Dichloroethene		and a state of the	1		<b>j</b> .
540-59-0	1.2-Dichloroethene(total)	10	eedlisks etca.	7		J U
67-66-3	Chloroform	10	esp.			i I
107-06-2	1,2-Dichloroethane	10	•			!}
78-93-3	2-Butanone	10				Ĭ
71-55-6	1,1,1-Trichloroethane	10				Ŭ
56-23-5	Carbon tetrachloride	10			2.5	Ū
108-05-4	Vinvl acetate	10				U
75-27-4	Bromodichloromethane	10		•		U ·
78-87-5	1,2-Dichloropropane	10				U
	cis-1.3-Dichloropropene		को अस			U
79-01-6	Trichloroethene	10	n nagarygester i krain			IJ
71-43-2	Benzene	10				Ų.
124-48-1	Dibromochloromethane	10 10		1. 1.		U U
10061-02-6 79-00-5	trans-1.3-Dichloropropene 1.1.2-trichloroethane	10			** * *** *	U
75-00-5 75-25-2	Promoform	10	10.343.000.000	et days		U.S.
108-10-1	Bromoform 4-Methyl-2-pentanone	10 10		2 5 2	47 WEEK E.M. 41	Ĭ
591-78-6	2-Hexanone	10	- 1988 (1985)	e, e.	59 (J. C. 4)	ŭ ·
79-34-5	1,1,2,2-Tetrachloroethane	10	**			Ŭ
127-18-4		10				Ū
108-88-3	Toluene	10				U
108-90-7	Chlorobenzene	10				U
100-41-4	Ethylbenzene	10				U
100-42-5	Styrene	10		\$		U
1330-20-7	Xylenes, Total	10	and the second			ប
95-50-1	1,2-Dichlorobenzene	. 10		the same free	Makan s	U.
541-73-1	1.3-Dichlorobenzene	10		*** ****	1 (61000) 50/30/3	U
106-46-7	1,4-Dichlorobenzene	10		#18-Wall to 1	1999din	Ų
630-20-6	1,1,1,2-Tetrachloroethane	10 10		880.888880.], VS 24		u U
96-18-4 75-69-4	1,2,3-Trichloropropane Trichlorofluoromethane	10 10		otosamilissinistinis.		y
75-09-4 107-13-1	or notice and respect to the transfer of the company of the composition of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the co	5000		des de la destacación de la companya de la companya de la companya de la companya de la companya de la companya		Haarra aa aa aa aa aa aa aa aa aa aa aa a
74-97-5	Acrylonitrile Bromochloromethane	10		Had to APPROSED SERVE ALL TO	200000000000000000000000000000000000000	Ŭ

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NYSDOH 10142

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# Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155817-01

CAS NO.	Compound	ug/l	ug/l	Qualifier
106-03-4 96-12-8 74-95-3 110-57-6 74-88-4	1,2-Dibromoethane 1,2-Dibromo-3-Chloropropane Dibromomethane trans-1,4-dichloro-2-butene Iodomethane	10 10 10 10 10		e fra U e i U fy U ejst <b>U</b> e ma



### 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW09112995

Tab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Case No.:##### SAS No.:##### ab Code:10142

SDG No.: AC817

Matrix: (soil/water) WATER

Lab Sample ID:155817-01

ample wt/vol:

5.00 (g/ml) ML

Lab File ID: V4472

Level:

(low/med) LOW

Date Received:11/29/95

Moisture: not dec.

Date Analyzed:12/06/95.

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

oil Extract Volume:0

umber TICs Found:

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =======
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FORM I

NYSDOH 10142

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### Volatile Organics Analysis Data Sheet Form I VOA

Client ID: MW-10-112995

Date Collected: 29-NOV-95

ETL Sample Number: 155817-02

Date Received: 29-NOV-95

Client Name: ANEPTEK CORP.

Date Extracted:

Project Name: STEWART

Date Analyzed: 06-DEC-95

% Solid: NA

Report Date: 18-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4473

Level: LOW

Dilution Factor: 1.00

		Detection	Conc.	Data
CAS NO.	Compound	Limit ug/l	ug/l	Qualifier
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl chloride	10		Ų
75-00-3	Chloroethane	10		U
75-09-2	Methylene chloride Acetone	10 10		- U - II
67-64-1 75-15-0	Carbon disulfide	10		II .
75-35-4	1.1-Dichloroethene	10		Ŭ
75-34-3	1.1-Dichloroethane			Ŭ
540-59-0	1.2-Dichloroethene(total)	10		Ŭ
67-66-3	Chloroform	10		.U.
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10	5.7	· U
71-55-6	1.1.1-Trichloroethane	10		U
56-23-5	Carbon tetrachloride		et et Agar	់មួ
108-05-4	Vinyl acetate	10 10		. ft
75-27-4	Bromodichloromethane	10		ii
78-87-5 10061-01-5	1,2-Dichloropropane cis-1,3-Dichloropropene	10	V.	ः <u>भा</u>
79-01-6	Trichloroethene	10		Ü
71-43-2	Benzene	10	,	: -Ŭ
124-48-1	Dibromochloromethane	10		Ü
10061-02-6	trans-1.3-Dichloropropene 1.1.2-trichloroethane	9. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		· · · U
79-00-5	1.1.2-trichloroethane	10		U
75-25-2	Bromoform 4-Methyl-2-pentanone	10		ro (U:
108-10-1	4-Methyl-2-pentanone	10		U U
591-78-6	2-Hexanone	10 10	. 5	. U
79-34-5	1.1.2.2-Tetrachloroethane	10 10	mg wax	
127-18-4 108-88-3	Tetrachloroethene Toluene	10		. II
108-90-7	Chlorobenzene	10	9.4	ŭ
100-41-4	Ethylbenzene	10		Ŭ
100-42-5	Styrene	$ar{10}$		."⊹.°U
1330-20-7	Xylenes, Total	10		U
110-75-8	2-Chloroethylvinylether	10		U
95-50-1	1,2-Dichlorobenzene	10	on a second	U
	1.3-Dichlorobenzene	10		iii i
106-46-7	1.4-Dichlorobenzene	10	ngin , signing	U Second
75-69-4	Trichlorofluoromethane	10		, O
107-13-1	Acrylonitrile	10 10		U 
74-97-5	Bromochloromethane		genen bur - Frankrik den gebes gebe	II
106-03-4	1,2-Dibromoethane	10		U

### Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155817-02

CAS NO.	Compound	ug/l	ug/l	Qualifier
96-12-8 74-95-3 110-57-6 74-88-4 630-20-6 96-18-4	1,2-Dibromo-3-Chloropropane Dibromomethane trans-1,4-dichloro-2-butene Iodomethane 1,1,1,2-Tetrachloroethane 1,2,3-Trichloropropane	10 10 10 10 10 10		ช บ บ บ บ บ

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NJDEP 73507

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10112995

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

Matrix: (soil/water) WATER

Lab Sample ID:155817-02

Sample wt/vol:

5.00 (g/ml) ML Lab File ID: V4473

Level:

(low/med) LOW

Date Received:11/30/95

% Moisture: not dec.

Date Analyzed:12/06/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs Found:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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# $\begin{array}{c} \text{Volatile Organics Analysis Data Sheet} \\ \text{Form I VOA} \end{array}$

Client ID: TB-1129

Date Collected: 29-NOV-95

ETL Sample Number: 155817-03

Date Received: 29-NOV-95

Client Name: ANEPTEK CORP.

Date Extracted:

Project Name: STEWART

Date Analyzed: 06-DEC-95

% Solid: NA

Report Date: 18-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4471

Level: LOW

Dilution Factor: 1.00

		Detection Limit	Conc. Data
CAS NO.	Сотроили	ug/l	ug/l Qualifier
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	. <b>U</b>
75-35-4	1.1-Dichloroethene	10	U
75-34-3	1.1-Dichloroethane	10	. Sec <u>ion (</u>
540-59-0	1.2-Dichloroethene(total)	10	U
67-66-3	Chloroform	10	<u>.</u> <b>U</b>
107-06-2	1.2-Dichloroethane	10	U
78-93-3	2-Butanone	10	表達 🐧 🔒
71-55-6	1.1.1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	a de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
108-05-4	Vinyl acetate	10	Ų
75-27-4	Bromodichloromethane	10	- 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
78-87-5	1,2-Dichloropropane	10	IJ
10061-01-5	cis-1.3-Dichloropropene	10	` <b>₩</b> ₩₩
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	u U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	u.≥ U
79-00-5	1.1.2-Trichloroethane Bromoform 4-Methyl-2-pentanone 2-Hexanone 1.1.2.2-Tetrachloroethane	10	, U
75-25-2	Bromoform	10	ייייייייייייייייייייייייייייייייייייייי
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	4, 4, 4, 10 · · · · · · · · · · · · · · · · · ·	entaka ni
79-34-5	1.1.2.2-Tetrachloroethane	10	<u>, , , , , , , , , , , , , , , , , , , </u>
127-18-4	letrachioroethene	10 Table 10	
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	- 46 x U
100-41-4	Ethylbenzene	10	U No. 2002 H
100-42-5	Ethylbenzene Styrene Xylenes, Total	- <b>10</b> - Alia Mala 1	, and a second
1330-20-7	Xylenes, lotal	10	. 1 55555 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1
110-75-8	Z-CHIOLOCKINALATINALECTIC	10	•
95-50-1	1,2-Dichlorobenzene	10	
541-73-1	1,3-Dichlorobenzene	10	2 54 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
106-46-7	1,4-Dichlorobenzene	10	U
74-97-5	Bromochloromethane	10	က ႏ
106-03-4	1,2-Dibromoethane	10	U 
96-12-8	1,2-Dibromo+3-Chloropropane	10 10	U II
74-95-3	Dibromomethane	10	υ

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# $\begin{array}{c} \mbox{Volatile Organics Analysis Data Sheet} \\ \mbox{Form I VOA} \end{array}$

Results are continued from the previous page for 155817-03

CAS NO.	Compound	ug/l	ug/l	Qualifier
110-57-6	trans-1,4-dichloro-2-butene	10		U
74-88-4	Iodomethane	10		U
630-20-6	1,1,1,2-Tetrachloroethane	10		U
96-18-4	1,2,3-Trichloropropane	10		U
75-69-4	Trichlorofluoromethane	10		U
107-13-1	Acrylonitrile	10		U



NJOEP 73507

### 1E

EPA SAMPLE NO.

## VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS TB-1129

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

ab Code:10142

Case No.:#####

SAS No.:#####

SDG No.: AC817

(soil/water) WATER

Lab Sample ID:155817-03

imple wt/vol:

(g/ml) ML 5.00

Lab File ID: V4471

Level:

Matrix:

(low/med) LOW

Date Received:11/29/95

Moisture: not dec.

Date Analyzed:12/06/95

1.0

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

il Extract Volume:0

umber TICs Found:

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
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FORM I VOA-TIC

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# $\begin{array}{c} \textbf{Volatile Organics Analysis Data Sheet} \\ \textbf{Form I VOA} \end{array}$

Client ID: MW-01-112995

Date Collected: 29-NOV-95

ETL Sample Number: 155893-05

Date Received: 30-NOV-95

Client Name: ANEPTEK CORPORATION

Date Extracted:

Project Name: STANDARD

Date Analyzed: 06-DEC-95

Report Date: 18-JAN-96

% Solid: NA

Sample Wt/Vol: 5ml

-Column: DB-624

Matrix: 2 GW/WW

Lab File Id: V4475

Level: LOW

Dilution Factor: 1.00

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Methylene chloride	10		U
67-64-1	Acetone	10 10		U U
75-15-0	Carbon disulfide	10		. 11
75-35-4	1.1-Dichloroethene	10		. siii
75-34-3 540-59-0	1.1-Dichloroethane 1.2-Dichloroethene(total)	10		ii
67-66-3	Chloroform	10	2	Ĵ
107-06-2	1,2-Dichloroethane	10		Ü
78-93-3	2-Butanone	10		U
71-55-6	1.1.1-Trichloroethane	10		U
56-23-5	Carbon tetrachloride	10		<b>₩ U</b>
108-05-4	Vinyl acetate	10		U
75-27-4	Bromodichloromethane	10		U
78-87-5	1.2-Dichloropropane	10		U
10061-01-5	cis-1.3-Dichloropropene	10		K∰*U
79-01-6	Trichloroethene	10		U
71-43-2	Benzene	10		u, U
124-48-1	Dibromochloromethane	10		U
10061-02-6	trans 1,3-Dichloropropene	10		.iU
79-00-5	1,1,2-trichloroethane	10	. 7.00	U Dayyenin ee
75-25-2	Bromoform	10		U U
108-10-1	4-Methyl-2-pentanone	10		ាន ប៉
<b>591</b> -78-6	2-Hexanone	10 10	* * * * * * * * * * * * * * * * * * * *	adidU H
79-34-5	1.1.2.2-Tetrachloroethane	10	•	. · Ŭ
127-18-4	Tetrachloroethene Toluene	10		Ŭ
108-88-3	Chlorobenzene	10	e e	ŭ
108-90-7 100-41-4	Ethylbenzene	10		บ้
100-41-4	Styrene Styrene	10		บ
1330-20-7	Xylenes, Total	10		Ū
110-75-8	2-Chloroethylvinylether		요 생물 기업	V V
95-50-1	1.2-Dichlorobenzene	10	•	U
541.73.1		10		U
106-46-7	1,4-Dichlorobenzene	10		U
106-03-4	1.2-Dibromoethane	10		U
96-12-8	1,2-Dibromo-3-Chloropropan	e 10		U
74-95-3	Dibromomethane	10		Ų
110-57-6	trans-1,4-dichloro-2-buten			U

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# Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155893-05

CAS NO.	Compound	ug/l	ug/l	Qualifier
74-88-4	Iodomethane	10	•.	<i>म</i> द <b>ाए</b> इ
630-20-6	1,1,1,2-Tetrachloroethane	10		U
96-18-4	1,2,3-Trichloropropane	10		U
75-69-4	Trichlorofluoromethane	10		Ü
107-13-1	Acrylonitrile	10		U
74-97-5	Bromochloromethane	10		U

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### 1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW01112995

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Lab Code:10142

Case No.:####

SAS No.:#####

SDG No.:AC817

Matrix: (soi

(soil/water) WATER

Lab Sample ID:155893-05

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: V4475

Level: (lo

(low/med) LOW

Date Received:11/30/95

% Moisture: not dec.

Date Analyzed:12/06/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

. • •

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1.111-76-2	Ethanol, 2-butoxy-	23.69	10.	J
	Unknown	29.06	7.	J
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FORM I VOA-TIC 000067

3 / 9 0 315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890

# Volatile Organics Analysis Data Sheet Form I VOA

Client ID: TB-113095

Date Collected: 29-NOV-95

ETL Sample Number: 155893-07

Date Received: 30-NOV-95

Client Name: ANEPTEK CORPORATION

Date Extracted:

Date Analyzed: 07-DEC-95

Project Name: STANDARD

% Solid: NA

Report Date: 18-JAN-96

Column: DB-624

Matrix: 2 GW/WW Sample Wt/Vol: 5ml

Lab File Id: V4486

Level: LOW

Dilution Factor: 1.00

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/1	ug/l	Qualifier
74-87-3	Ch1oromethane	10	1 50 8	U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Methylene chloride	10	•	U
67-64-1	Acetone	10		U
75-15-0	Carbon disulfide	10		U
75-35-4	1,1-Dichloroethene	10		U
75-34-3	1.1 Dichloroethane	10	14.47	
540-59-0	1.2-Dichloroethene(total)	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10		U
71-55-6	1.1.1-Trichloroethane	10		บ
56-23-5	Carbon tetrachloride	10	1,13.9	
108-05-4	Vinyl acetate	10		ี่ป
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		Ü
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
71-43-2	Benzene	10		U
124-48-1	Dibromochloromethane	10 -		บ
10061-02-6	trans-1.3-Dichloropropene	10	1.11	v U
79-00-5	1,1,2-trichloroethane	10	147	U
75-25-2	Bromoform	10	하는 사람이 얼마를 받았다.	U
108-10-1	4-Methyl-2-pentanone	10		U
591-78-6	2-Hexanone	<b>10</b>		U
79-34-5	2.Hexanone 1,1,2,2-Tetrachloroethane	10		U
127-18-4	Tetrachloroethene	10	:.	U
108-88-3	Toluene	10		U
108-90-7	Chlorobenzene	- 1 1 <b>10</b> - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.448	្រុ
100-41-4	Ethylbenzene	10	<i>t</i>	U
100-42-5	Styrene	10	1 199	ៈ ប៉
1330-20-7	Xylenes, Total	10	s 1 1200 is	U
110-75-8	2-Chloroethylvinylether	til i di <b>jo</b> e ne <del>volsti</del> e n		⊗ N .
95-50-1	1.2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	$ar{1}0$ . The section $ar{1}$		U
106-46-7	1.4-Dichlorobenzene	10		U
106-03-4	1,2-Dibromoethane 1,2-Dibromo-3-Chloropropane	10	T Fig. 4	U
96-12-8	1.2-Dibromo-3-Chloropropane	10		U
74-95-3	Dibromomethane trans-1,4-dichloro-2-butene	10		U
110-57-6	trans-1.4-dichloro-2-butene	10		U

Envirolest Laboratories Inc. 000070

NJOEP 73507

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

### Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for  $155893 \cdot 07$ 

CAS NO.	Compound	ug/l	ug/l Qualifier
74-88-4	Iodomethane	10	711 + 2 <b>U</b>
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
75-69-4	Trichlorofluoromethane	10	Ü
107-13-1	Acrylonitrile	10	U
74-97-5	Bromochloromethane	10	U

EnviroTest Laboratories Inc.

000071

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

### 1 E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-113095	

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

ab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

\_

(soil/water) WATER

Lab Sample ID:155893-07

ample wt/vol:

5.00 (g/ml) ML

Lab File ID: V4486

Level:

Matrix:

(low/med) LOW

Date Received:11/30/95

Moisture: not dec.

Date Analyzed:12/07/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

.0

oil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

umber TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

3 / 9 0 315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

# 

Client ID: MW-11-113095

Date Collected: 30-NOV-95

ETL Sample Number: 155893-08

Date Received: 30-NOV-95

Client Name: ANEPTEK CORPORATION

Date Extracted:

Project Name: STANDARD

Date Analyzed: 06-DEC-95

% Solid: NA

Report Date: 18-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4476

Level: LOW

Dilution Factor: 1.00

		Detecti	on Conc.	Data
CAS NO.	Compound	Limit ug/l	ug/l	Qualifier
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl chloride	10		Ų
75-00-3	Chloroethane	10		U
75-09-2	Methylene chloride	10		. U U
67-64-1	Acetone	10 10		U 11
75-15-0 75-35-4	Carbon disulfide 1.1-Dichloroethene	10		· ŭ
75-35-4 75-34-3	1,1-Dichloroethane	10		ำนั
540-59-0	1.2-Dichloroethene(total)	10		Ŭ
67-66-3	Chloroform	10		Ų.
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10		Ü
71-55-6	1,1,1-Trichloroethane	10	_	Ü
56-23-5	Carbon tetrachloride	10		스타크 스타크 스타크
108-05-4	Vinyl acetate	10 10		U
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane cis-1,3-Dichloropropene	10	Committee and the second	range salah di di
10061-01-5 79-01-6	Trichloroethene	10		Ŭ
79-01-0	Benzene	10	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ารเกียร <b>์เบ</b> ้าจ่างได้
124-48-1	Dibromochloromethane	10	· •	Ü
10061-02-6	trans-1.3-Dichloropropene	10		. <b>U</b> .
79-00-5	1,1,2-trichloroethane	10		Ų
75-25-2	Bromoform	10		U
108-10-1	4-Methyl-2-pentanone	10		U
591-78-6	2-Hexanone	10	and the second second	
79-34-5	1.1.2.2-Tetrachloroethane	10 10	27	ŭ
127-18-4 108-88-3	Tetrachloroethene Toluene	10		ii
108-90-7	Ch1orobenzene	10		tere∰Ū‰s are
100-41-4	Ethylbenzene	10		Ü
100-42-5	Styrene	10	• • • • • • • • • • • • • • • • • • •	. ∙ <b>∵</b> U
1330-20-7	Xylenes. Total	10		U
110-75-8	2-Chloroethylvinylether	10		
95-50-1	1,2-Dichlorobenzene	10	4 1 10080 300 30 1 3 1 3 1 1 1 1 1	U Table (USA) (1997)
541-73-1	1,3-Dichlorobenzene	4 10 10	作品 (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (100mm) (	II
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74-95-3	Dibromomethane	10		Ü
110-57-6	trans-1,4-dichloro-2-butene	10	A Section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect	11





### Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155893-08

CAS NO.	Compound	ug/l	ug/l	Qualifier
74-88-4	Iodomethane	10	100	U
630-20-6	1.1.1.2-Tetrachloroethane	10		U
96-18-4	1,2,3-Trichloropropane	10		U
75-69-4	Trichlorofluoromethane	10		U
107-13-1	Acrylonitrile	10		<b>U</b>
74-97-5	Bromochloromethane	10		U





Harry Forest March

### 1E

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW11113095

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

Matrix: (soil/water) WATER

Lab Sample ID:155893-08

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: V4476

Level:

(low/med) LOW

Date Received:11/30/95

% Moisture: not dec.

Date Analyzed:12/06/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs Found:

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FORM I VOA-TIC

3/90 315 Fullerton Avenue

NYSDOH 10142

# $\begin{array}{c} \textbf{Volatile Organics Analysis Data Sheet} \\ \textbf{Form I VOA} \end{array}$

Client ID: MW-05-113095

Date Collected: 30-NOV-95

ETL Sample Number: 155893-09

Date Received: 30-NOV-95

Client Name: ANEPTEK CORPORATION

Date Extracted:

Project Name: STANDARD

Date Analyzed: 06-DEC-95

% Solid: NA

Report Date: 18-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4477

Level: LOW

Dilution Factor: 1.00

CAS NO. Compound  74-87-3 Chloromethane 74-83-9 Bromomethane 75-01-4 Vinyl chloride 75-00-3 Chloroethane 75-09-2 Methylene chloride 67-64-1 Acetone 75-15-0 Carbon disulfide 75-35-4 1,1-Dichloroethane 75-34-3 1,1-Dichloroethane 540-59-0 1,2-Dichloroethane 67-66-3 Chloroform 107-06-2 1,2-Dichloroethane	ug/1  10 10 10 10 10 10 10 10 10 10 10 10 1	1	Qualifier U U U U U U U U U U U U U U U
74-83-9 Bromomethane 75-01-4 Vinyl chloride 75-00-3 Chloroethane 75-09-2 Methylene chloride 67-64-1 Acetone 75-15-0 Carbon disulfide 75-35-4 1,1-Dichloroethane 75-34-3 1,2-Dichloroethane 1,2-Dichloroethene(total) 67-66-3 Chloroform	10 10 10 10 10 10 10 10 10	1	U U U J U U U
75-01-4	10 10 10 10 10 10 10 10	<b>1</b>	บั บ <b>3</b>
75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 75-09-2 1.1-Dichloroethene 75-34-3 1.2-Dichloroethene 75-66-3 Chloroform Chloroform	10 10 10 10 10 10 10	1	บั 3 บ บ บ
75-09-2 Methylene chloride 67-64-1 Acetone 75-15-0 Carbon disulfide 75-35-4 1,1-Dichloroethene 75-34-3 1,2-Dichloroethene 67-66-3 Chloroform	10 10 10 10 10 10	1	3 U U U
67-64-1 Acetone 75-15-0 Carbon disulfide 75-35-4 1,1-Dichloroethene 75-34-3 1,1-Dichloroethane 540-59-0 1,2-Dichloroethene(total) 67-66-3 Chloroform	10 10 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ū U
75-15-0 Carbon disulfide 75-35-4 1,1-Dichloroethene 75-34-3 1,1-Dichloroethane 540-59-0 1,2-Dichloroethene(total) 67-66-3 Chloroform	10 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ū U
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67-66-3 Chloroform	10		•
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78-93-3 2-Butanone	10		U .
71-55-6 1,1,1-Trichloroethane	10		U
56-23-5 Carbon tetrachloride	10		U
108-05-4 Vinyl acetate	10		U
75-27-4 Bromodichloromethane	10		บ
78-87-5 1,2-Dichloropropane	10		U
10061-01-5 cis-1,3-Dichloropropene	10 4 16 4 A		U
79-01-6 Trichloroethene	10	5. A. 4	บ ป_
71-43-2 Benzene 124-48-1 Dibromochloromethane	10 10	(mase e	·U
124-48-1 Dibromochloromethane	10 .	engliger in the second	U
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75-25-2 Bromoform	10		U 11
75-25-2 Bromoform 108-10-1 4-Methyl-2-pentanone	10		11
591-78-6 2-Hexanone	10		11-
79-34-5 1,1,2,2-Tetrachloroethane	10	1 - 4 (A. 1964 4 de	ŭ
127-18-4 Tetrachloroethene	10	erge a comment of the comment	ŭ
108-88-3 Toluene	10		ŭ
108-90-7 Chlorobenzene	10	ر بیکید د	·Ŭ
100-41-4 Ethyl benzene	10		Ü
100-42-5 Styrene	10		Ū
1330-20-7 Xylenes, Total	10	200	Ü
110-75-8 2-Chloroethylvinylether	10		ប
95-50-1 1.2-Dichlorobenzene	10		U
541-73-1 1,3-Dichlorobenzene	10 13		U
106-46-7 1.4-Dichlorobenzene	10		U
106-03-4 1.2-Dibromoethane	10		U
96-12-8 1.2-Dibromo-3-Chloropropane	10		U
74-95-3 Dibromomethane	10		U
110-57-6 trans-1,4-dichloro-2-butene	10		U

NJOEP 73507

#### Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155893-09

CAS NO.	Compound	ug/l	ug/l	Qualifier
74-88-4 630-20-6 96-18-4 75-69-4 107-13-1 74-97-5	1.2.3-Trichloropropane Trichlorofluoromethane	10 10 10 10 10 10		U U U U U U





#### 1E

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW05113095

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

ab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

Matrix: (

(soil/water) WATER

Lab Sample ID:155893-09

ample wt/vol:

5.00 (g/ml) ML

Lab File ID: V4477

Level:

(low/med) LOW

Date Received:11/30/95

Moisture: not dec.

Date Analyzed:12/06/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

1.0

oil Extract Volume:0

umber TICs Found:

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

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#### Volatile Organics Analysis Data Sheet Form I VOA

Client ID: MW-15-113095

Date Collected: 30-NOV-95

ETL Sample Number: 155893-10

Date Received: 30-NOV-95

Client Name: ANEPTEK CORPORATION

Date Extracted:

Project Name: STANDARD

Date Analyzed: 06-DEC-95

% Solid: NA

Report Date: 18-JAN-96

Column: DB-624

Matrix: 2 GW/WW

Sample Wt/Vol: 5ml

Lab File Id: V4478

Level: LOW

Dilution Factor: 1.00

		Detection	Conc.	Data
CAS NO.	Compound	Limit ug/l	ug/l	Qualifier
74-87-3	Chloromethane	10	Ų	Thu y
74-83-9	Bromomethane	10		U · II
75-01-4	Vinyl chloride	10		U
75-00-3	Chloroethane	10 10		11
75-09-2	Methylene chloride	10		Ŭ
67-64-1	Acetone	10		ŭ
75-15-0	Carbon disulfide	10		ŭ
75-35-4	1.1-Dichloroethene 1.1-Dichloroethane	10	dy est to the second	a a ∀ <mark>Ŭ</mark>
75-34-3 540-59-0	1.2-Dichloroethene(total)	10	•	U
67-66-3	Chloroform	10		U
107-06-2	1.2-Dichloroethane	10		U
78-93-3	2-Butanone	10		U
71-55-6	1.1.1-Trichloroethane	10		U
56-23-5	Carbon tetrachloride	10		Ü
108-05-4	Vinyl acetate	10		: . U
75-27-4	Bromodichloromethane	10		···U
78-87 <i>-</i> 5	1.2-Dichloropropane	10 10		Ü
10061-01-5	cis-1,3-Dichloropropene	10 10		Ü
79-01-6	Trichloroethene	10	v.	ŭ
71-43-2	Benzene Dibromochloromethane	10		Ŭ
124-48-1	UlDromochioromethane	10	Land Company	Ū
10061-02-6 79-00-5	trans-1.3-Dichloropropene 1,1.2-trichloroethane	10	•	U
75-25-2		10		igas (i U
108-10-1	4-Methyl-2-pentanone	10		U
591-78-6:	2-Hexanone	10	Spany My	្រាប់
79-34-5	1,1,2,2-Tetrachloroethane	10		U Të moti
127-18-4	Tetrachloroethene	10		
108-88-3	Toluene	10	à	. 0 ti
108-90-7	Ch1 or obenzene	10 for all 10	74m - 11	S: - *U 
100-41-4	Ethylbenzene	10	. <b>.</b>	:4 <b>(Ŭ</b>
100-42-5	Styrene	10 10	A Company	ŭ
1330-20-7	Xylenes, Total	10 24 10	aga kan tanan digi	×% -iŭ ∸
110-75-8	2 Chloroethylvinylether	10		Ũ
95-50-1	1,2-Dichlorobenzene	10	Minoria - Wa	‱ <b>Ŭ</b> .⊹
541-73-1	1,3-Dichlorobenzene 1.4-Dichlorobenzene	10	gging manage to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of	U
106-46-7	1,4-Dibromoethane	iŏ		U
106-03-4 96-12-8	1,2-Dibromo-3-Chloropropa	ne 10	and a supplied to a proper of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	U
74-95-3	Dibromomethane	10		Ü
110-57-6	trans-1,4-dichloro-2-bute	ne 10		U

EnviroTest Laboratories Inc.

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# Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155893-10

CAS NO.	Compound	ug/l	ug/l Qualifier
74-88-4	Iodomethane	10	mindig i i
630-20-6	1.1.1.2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	ta <b>10</b> (≥
75-69-4	Trichlorofluoromethane	10	Ü
107-13-1	Acrylonitrile	10	U
74-97-5	Bromochloromethane	10	U



CTDOHS PH-0554

#### 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW15113095

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Lab Code: 10142

Case No.:#####

SAS No.:#####

SDG No.: AC817

Matrix: (soil/water) WATER

Lab Sample ID:155893-10

Sample wt/vol:

5.00

Lab File ID: V4478

Level:

(low/med) LOW

Date Received:11/30/95

% Moisture: not dec.

Date Analyzed:12/06/95

GC Column:DB-624

ID: 0.53 (mm)

(g/ml) ML

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs Found:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

NYSDOH 10142

3/90 315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

### Volatile Organics Analysis Data Sheet Form I VOA

Client ID: MW-08-113095

Date Collected: 30-NOV-95

ETL Sample Number: 155893-11

Date Received: 30-NOV-95

Client Name: ANEPTEK CORPORATION

Date Extracted:

Project Name: STANDARD

Date Analyzed: 06-DEC-95

% Solid: NA

Report Date: 18-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4479

Level: LOW

Dilution Factor: 1.00

		Detection	Conc.	Data
CAS NO.	Compound	Limit ug/l	ug/l	Qualifier
74-87-3	Chloromethane	10		<b>U</b>
74-83-9	Bromomethane	10		U
75-01-4	Vinyl chloride	10		ប
75-00-3	Chloroethane	10		U
75-09-2	Methylene chloride	10		ប
67-64-1	Acetone	10		U
75-15-0	Carbon disulfide	10		ប
75-35-4	1.1-Dichloroethene	10		U
75-34-3	1.1-Dichloroethane	10		U
540-59-0	1,2-Dichloroethene(total)	10		U
67-66-3	Chloroform	10		Ų
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	10	2	J
56-23-5	Carbon tetrachloride	10	safe of the	U
108-05-4	Vinyl acetate	10		U
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		U
10061-01-5	1,2-Dichloropropane cis-1,3-Dichloropropene	10	e .	5. <b>U</b>
79-01-6	Trichloroethene	10		U
71-43-2	Benzene	10		. บ
124-48-1	Dibromochloromethane	10		Ų
10061-02-6	trans-1,3-Dichloropropene 1,1,2-trichloroethane	10	:	งับ
79-00-5	1,1,2-trichloroethane	10		U
75-25-2	Bromoform	10	M	Ü
108-10-1	4-Methyl-2-pentanone	10		U
	2-Hexanone	10	E <sup>A</sup>	U ∐
79-34-5	1.1.2.2-Tetrachloroethane	10		. U
127-18-4	Tetrachloroethene	10		· U
108-88-3	Toluene	10		U 11
108-90-7	Chlorobenzene	10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to	9 4	.∿¥ <b>U</b> ∐
100-41-4	Ethylbenzene	10	<	. 111
100-42-5	Styrene	10	· v	ii
1330-20-7	Xylenes, Total	10 - 10 - Persent	sw <sup>1</sup> in ush in the	
110-75-8	2-Chloroethylvinylether 1,2-Dichlorobenzene	10	t to the co	11
95-50-1	1,Z-U1CH10ropenzene	10	Seconde som in	a i sissi <b>u</b> a i sala
541-73-1	1.3-Dichlorobenzene	10	\$2654.0003 1	ii
106-46-7	1,4-Dichlorobenzene	10	2012/03/2015/15 THE THE	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
106-03-4	1,2-Dibromoethane		\$\$\$\$.00.0e/0.\$U1+U1-V1	li
96-12-8	1,2-Dibromo-3-Chloropropane Dibromomethane	10	838815880008854 - 11. tu	3436.3 <b>333333 N</b> 33343333 34 -
74-95-3	trans-1.4-dichloro-2-butene		etensekterisen (b. 2017/1919)	r see gaar saasse <b>y</b> aar in heer jalleeri. H
110-57-6	crans-1,4-arcmoro-2-butene	10		U

EnviroTest

650900

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

# Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155893-11

CAS NO.	Compound	ug/l	ug/l Qualifier
74-88-4	Iodomethane	10	` : <b>U</b>
630-20-6	1.1.1.2-Tetrachloroethane	10	V
96-18-4	1.2.3-Trichloropropane	10	U
75-69-4	Trichlorofluoromethane	10	U
107-13-1	Acrylonitrile	10	. <b>U</b>
74-97-5	Bromochloromethane	10	V

000100

EnviroTest Laboratories Inc. .

NJOEP 73507

MYCRYCH 10149

CTDOHS PH-0554

EPA SAMPLE NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

LEMIATIVELY IDENTIFIED COMPOUNDS

MW08113095

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

b Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

Matrix: (soi

(soil/water) WATER

Lab Sample ID:155893-11

umple wt/vol:

5.00

Lab File ID: V4479

Level:

(low/med) LOW

Date Received:11/30/95

Moisture: not dec.

Date Analyzed:12/06/95

GC Column:DB-624

Imber TICs Found:

ID: 0.53 (mm)

(g/ml) ML

Dilution Factor:

1.0

il Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

000101

3 / 9 0 315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890

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#### Volatile Organics Analysis Data Sheet Form I VOA

Client ID: MW-06-113095

Date Collected: 30-NOV-95

ETL Sample Number: 155893-12

Date Received: 30-NOV-95

Client Name: ANEPTEK CORPORATION

Date Extracted:

Project Name: STANDARD

Date Analyzed: 06-DEC-95

% Solid: NA

Report Date: 18-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4480

Level: LOW

Dilution Factor: 1.00

			Detection Limit	Conc.	Data
	CAS NO.	Compound	ug/1	ug/l	Qualifier
	74-87-3	Chloromethane	10		U
	74-83-9	Bromomethane	10		U
	75-01-4	Vinyl chloride	10 10		U
	75-00-3	Chloroethane Methylene chloride	10		
	75-09-2 67-64-1	Acetone	10		Ĭ
	75-15-0	Carbon disulfide	10		Ŭ
	15-35-4	1.1-Dichloroethene	10	2	j
	75-34-3	1.1-Dichloroethane	10		U
	540-59-0	1.2-Dichloroethene(total)	10		U
	67-66-3	Chloroform	10	•	Ų į
-	107-06-2	1,2-Dichloroethane	10		N I
	78-93-3	2-Butanone	10		10
	71-55-6	1.1.1-Trichloroethane	10 10		ų l
	56-23-5	Carbon tetrachloride Vinyl acetate	10		ii l
	108-05-4 75-27-4	Bromodichloromethane	10		ĭ
	78-87-5	1,2-Dichloropropane	10		ŭ
	10061-01-5	cis-1,3-Dichloropropene	$\overline{10}$		Ü
	79-01-6	Trichloroethene	10		U
	71-43-2	Benzene	10		ે ં ∪
	124-48-1	Dibromochloromethane	10		
	10061-02-6	trans-1.3-Dichloropropene	가는 <b>10</b> - 관련되었다.		11
	79-00-5	1,1,2-trichloroethane	10 - 10		
	75-25-2	Bromoform 4-Methyl-2-pentanone	10		1
	108-10-1 591-78-6	4-methyr-z-pentanone	10		ŭ
	79-34-5	2-Hexanone 1,1,2,2-Tetrachloroethane	10		Ŭ
1	127-18-4	Tetrachloroethene	1 1 <b>10</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		U
	108-88-3	Toluene	10		U j
İ	108-90-7	Chlorobenzene	* 2 <b>10</b> Annu		y I
<b>'</b>	100-41-4	Ethylbenzene	10		U
	100-42-5	Styrene	10 10		i I
	1330-20-7	Xylenes, Total	10	2,5	au matallite debits
	110-75-8 95-50-1	2-Chloroethylvinylether 1.2-Dichlorobenzene	10	+4.	Ü
l	541-73-1	1,3-Dichlorobenzene		reila, labba	sasaūsaa li
ر ا	106-46-7	1.4-Dichlorobenzene	10		Ü
أنشر ا	106-03-4		10		U
ł	96-12-8	1.2-Dibromo-3-Chloropropane	10		U
1	74-95-8	DIDIONONCLIQUE	10		U 11
1	110-57-6	trans-1,4-dichloro-2-butene	10		U
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Envirolest Laboratories Inc. 000107

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 $G_{k}(\mathcal{C})$ 

NYSDOH 10142

#### Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155893-12

CAS NO.	Compound	ug/l	ug/1 Qualifier
74-88-4	Iodomethane	10	√ . • <b>U</b>
630-20-6	1.1.1.2-Tetrachloroethane	10	U
96-18-4	1.2.3-Trichloropropane	10	U
75-69-4	Trichlorofluoromethane	10	U
107-13-1	Acrylonitrile	10	U
74-97-5	Bromochloromethane	10	· U

EnviroTest 
Laboratories Inc.

000108

#### 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW06113095

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

\_\_\_\_

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

Macrix: (

Matrix: (soil/water) WATER

Lab Sample ID:155893-12

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: V4480

Level:

(low/med) LOW

Date Received:11/30/95

% Moisture: not dec.

Date Analyzed:12/06/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs Found:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

000109

# Volatile Organics Analysis Data Sheet Form I VOA

Client ID: MW-07-113095

Date Collected: 30-NOV-95

ETL Sample Number: 155893-13

Date Received: 30-NOV-95

Client Name: ANEPTEK CORPORATION

Date Extracted:

Project Name: STANDARD

Date Analyzed: 07-DEC-95

Report Date: 18-JAN-96

% Solid: NA

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4485

Level: LOW

Dilution Factor: 1.00

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
74-87-3	Ch1oromethane	10	i til en en en en en en en en en en en en en	eta <b>u</b> leanna
74-83-9	Bromomethane	10 10		U
75-01-4	Vinyl chloride Chloroethane	10 10 10 10 10 10 10 10 10 10 10 10 10 1		U
75-00-3 75-09-2	Chloroethane Methylene chloride			11
C7 C4 1	A	10		Ŭ
75-15-0	Carbon disulfide	10		Ű
75-35-4	1.1-Dichloroethene	10		U
75-34-3	Carbon disulfide 1.1-Dichloroethene 1.1-Dichloroethane 1.2-Dichloroethene(total) Chloroform 1.2-Dichloroethane 2-Butanone	10	lanist swiftedal	
540-59-0	1,2-Dichloroethene(total)	10	taa aa aa aa ta ta	U Terum see
0/-00-3 107-06-2	1 2-Dichloroethane	10	**	U
78-93-3	2-Butanone	$\tilde{10}$	×°	ranije pi
71-55-6	1,1.1-Trichloroethane Carbon tetrachloride	10 10	6	J
56-23-5	Carbon tetrachloride	10	Jawa Jawa	ñ
108-05-4	Vinyl acetate	10 	and the second of the	U U See
75-27-4 78-87-5	1 2-Dichloromethane	10 10		Ü
10061-01-5	cis:1:3-Dichloropropene	10 ·	ia, na kasa sa	
79-01-6	Trichloroethene	10 10 10 10 10		U
71-43-2	Benzene	įõ		, filip san
124-48-1	Dibromochloromethane	10		U Line U
10061-02-6	trans-1.3-U1Cn1oropropene			i U
79-00-5 75-25-2	1,1,2-trichloroethane Bromoform	10		្សប៉ុ 👙
108-10-1	4-Methyl-2-pentanone	10 10 10 10	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	U
591-78-6	2-Hexanone	10		COURSE
79-34-5	1,1,2,2-Tetrachloroethane	10		U
127-18-4		10 10	Alah di Kasaf	10 ************************************
108-88-3 108-90-7	Toluene Chlorobenzene		44. 1 · 数 。	azi <b>ŭ</b> 16.
100-41-4	Chlorobenzene Ethylbenzene Styrene Xylenes, Total 2-Chloroethylyinylether	10		Ü
100-42-5	Styrene	10	[집 전 : 전문화되어]	TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF TH
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110-75-8		30 10	Skill – Albrich	
95-50-1	1,2-Dichlorobenzene 1,3-Dichlorobenzene	10	Talibero e la conservación d	Ŭ
541-73-1 106-46-7	1,3*Dichtorobenzene	10	promocod C. Historia	U
96-12-8	1.2-Dibromo-3-Chloropropane	. 10		Ū
74-95-3	Dibromomethane	10	Takan and a state of the state of	Ü
110-57-6	trans-1,4-dichloro-2-butene	10		, Ņ
74-88-4	Iodomethane	10	• **	U

Envirolest Laboratories Inc. 000115

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

### Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155893-13

CAS NO.	Compound	ug/l	ug/1	Qualifier
630-20-6 96-18-4 75-69-4 107-13-1 74-97-5 106-03-4	1,1,1,2-Tetrachloroethane 1,2,3-Trichloropropane Trichlorofluoromethane Acrylonitrile Bromochloromethane 1,2-Dibromoethane	10 10 10 10 10 10		U . U . U . U . U . U .



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#### 1E

EPA SAMPLE NO.

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW07

E h	Name.	ENVIROTEST	LABS	INC.
LaD	name:	THATVOTEDT	unuu	T110

Contract:STEWART ANG

b Code:10142

Case No.:#####

SAS No.:#####

SDG No.: AC817

Matrix:

(soil/water) WATER

Lab Sample ID:155893-13

mple wt/vol:

(g/ml) ML 5.00

Lab File ID: V4485

Level:

(low/med) LOW

Date Received:11/30/95

Moisture: not dec.

Date Analyzed:12/07/95

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor:

il Extract Volume:0

umber TICs Found:

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

į		200	TOTAL CONTO	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC (100117

3/90 315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

#### COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ENVIROTEST LABORATORIES Contract: STEWART

Lab Code: 1014	2 Case No.:	SAS NO.:	SDG NO.: ANESI7
SOW No.: ILMO	2.0		
_	EPA Sample No.  MW0911  MW1011	Lab Sampl 155817- 155817-	-01
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	element corrections appround corrections appl:	•	Yes/No YES Yes/No YES
If yes-we	re raw data generated l on of background corre	before	Yes/No NO
Comments:			
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	AND AND	0200	Newburgh, NY 12550

Laboratories Inc. .

#### COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab	Name:	ENVIROTEST	LABORA	rories -	Con	tract: STEWART			
Lab	Code:	10142	Case	No.:	SAS	No.:	SDG	No.:	ANE893
sow	No.:	ILM02.0							
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Wer	If y	es-were raw	data g	ions applied? enerated befo	re	•		Yes/No	
	appī	ication of	backgro	und correctio	ns?			Yes/No	o NO
Com	ments:								
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th ha di de Si	nditio an the rdcopy skette	ons of the conditions data packa has been a	ontract detail ge and Withoriz	ed above. Re in the computed by the Lab. The following	cally lease er-rea orator	KONARD	tene ntai mitt	ss, io ned in ed on	n this
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Envirollest Laboratories Inc.

Client Name: ANEPTEK CORP.

Project Name:

STEWART

ETL Sample Number: 155817-01

Client I.D.: MW-09-112995

Date Collected: 29-NOV-95

Matrix: 2 GW/WW

Date Received: 29-NOV-95

Comments:

	Analysis	Result		Units	Met	hod	Analyzed
	Alkalinity	646		MG/L	232		30-NOV-95
	Aluminum	617		UG/L	200		19-DEC-95
	Ammonia-Nitrogen	0.2 ป		MG/L			07-DEC-95
	Antimony	23.4 U		UG/L	200	./	19-DEC-95
	Arsenic	1.2 U		UG/L	206		13-DEC-95
	BOD	3.0 U		MG/L	521		29-NOV-95
	Barium	103 B E		UG/L	200		19-DEC-95
	Beryllium	1.2 U		UG/L	200		19-DEC-95
	Boron	88.7	•	UG/L	200		19-DEC-95
	Bromide	1.0 U N		MG/L	300		04-DEC-95
	Cadmium	2.7 U		UG/L	200		19-DEC-95
	Calcium	175000		UG/L	200 410		19-DEC-95 06-DEC-95
	Chemical Oxygen Demand	12.0 *		MG/L MG/L			00-DEC-95 04-DEC-95
	Chlorides	158	1-904	UG/L	200		19:DEC-95
	Chromium	10.3 U *	Section 1	UG/L	200	•/ 7	19-DEC-95
	Cobalt	7.1 U 10`	+ 9329	PT-CO	212		30-NOV-95
	Color	3.0 B		UG/L	200		19-DEC-95
	Copper Total	3.0 B 10.0 U	18577	UG/L			15-DEC-95
	Cyanide, Total	0.01 U	25 - 5 - 7	MG/L	719		30-NOV-95
	Hexavalent Chromium	0.01 0 1520 E	4 4 4 4 4 4	UG/L	200		19-DEC-95
	Iron Lead	2.3 B N	* *	UG/L	239		06-DEC-95
		2.3 D N 25500	erdyra i a	UG/L	200		19-DEC-95
	Magnesium	1390		UG/L	200		19-DEC-95
	Manganese Mercury	ี้ 0.2 ป	erger in a s	ŬĞŹĹ	245		05-DEC-95
•	Nickel	15.9 B	and districts of	UG/L	200		19-DEC-95
	Nitrate-Nitrite	ี่ เว็วไป้	10.5384	MG/L	353	.2	01-DEC-95
	Potassium	4520 B E	15 4260 L	UG/L	200		19-DEC-95
	Selenium	1.6 U	1,000,000,000	UG/L	270	.2	06-DEC-95
	Silver	2.1 U N	1 + 100+ 1	UG/L	200		19-DEC-95
	Sodium	104000	19 year 19 19 19 19 19 19 19 19 19 19 19 19 19	UG/L	200		19-DEC-95
•	Sulfate	38.0		MG/L	375		21-DEC-95
	Thallium	1.2 U W	jum gr	UG/L	2/9	.2	14-DEC-95
	Total Dissolved Solids	764		MG/L	160		01-DEC-95
	Total Hardness	542	103888	MG/L	200		19-DEC-95
	Total Kjeldahl Nitroge	ก 0.5 ป		MG/L			27-NOV-95
<b></b>	Total Organic Carbon	3.4 *		MG/L	415		08-DEC-95
المجموع الم	Total Phenols	0.01 U		MG/L	420	1.1	06-DEC-95

Results are continued from the previous page for 155817-01

Analysis	Result	Units	Method	Analyzed	
Vanadium	11.4 B	UG/L	200.7	19-DEC-95	
Zinc	75.2 E *	UG/L	200.7	19-DEC-95	

Remarks:

Envirolest Laboratories Inc.

000203

Client Name: ANEPTEK CORP.

Project Name:

STEWART

ETL Sample Number: 155817-02

Client I.D.: MW-10-112995

Date Collected: 29-NOV-95

Matrix: 2 GW/WW

Date Received: 29-NOV-95

Comments:

Analysis	Result	Units	Method	Analyzed
Alkalinity	450	MG/L	2320 B	30-NOV-95
Aluminum	1070	UG/L	200.7	19-DEC-95
Ammonia-Nitrogen	0.2 U	MG/L	4500-NH3 F	07-DEC-95
Antimony	23.4 U	UG/L	200.7	19-DEC-95
Arsenic	1.2 U	UG/L	206.2	13-DEC-95
800	3.0 U	MG/L	5210 B	29-NOV-95
Barium	44.8 B E	UG/L	200.7	19-DEC-95
Beryllium	1.2 U	UG/L	200.7	19-DEC-95
Boron	65.6	UG/L	200.7	19-DEC-95
Bromide	1.0 U N	MG/L	300	04-DEC-95
Cadmium	3.0 B	UG/L	200.7	19-DEC-95
Calcium	95100	UG/L	200.7	19-DEC-95
Chemical Oxygen Demand	16.1 *	MG/L	410.2	06-DEC-95
Chlorides	98.1	MG/L	4500-CL B	04-DEC-95
Chromium	10.3 U *	UG/L	200.7	19-DEC-95
Cobalt	7.1 U	UG/L	200.7	19-DEC-95
Color	20	PT-CO	2120-B	30-NOV-95
Copper	7.2 B	UG/L	200.7	19-DEC-95
Cyanide. Total	10.0 U	UG/L	335.2CLP*M	15-DEC-95
Hexavalent Chromium	0.01 U	MG/L	7196	30-NOV-95
Iron	1800 E	UG/L	200.7	19-DEC-95
Lead	0.56 U N	UG/L	239.2	06-DEC-95
Magnesium	13800	UG/L	200.7	19-DEC-95
Manganese	122	UG/L	200.7 245.1	19-DEC-95 05-DEC-95
Mercury	0.2 U	UG/L	245.1	19-DEC-95
Nickel	14.1 U	UG/L	200.7 353.2	01-DEC-95
Nitrate-Nitrite	0.30 1200 S. E	MG/L UG/L	200.7	19-DEC-95
Potassium	1200 B E	UG/L	270.2	06-DEC-95
Selenium	1.6 U W 4.7 B N	UG/L	200.7	19-DEC-95
Silver	4.7 B N 128000	UG/L	200.7	19-DEC-95
Sodium	53.0	MG/L	375.4	21-DEC-95
Surrace	1.2.U W (# (* * ) * (* )	UG/L	279.2	14-DEC-95
Thallium Total Dissolved Solids	604	MG/L	160.1	01-DEC-95
Total Hardness	294	MG/L	200.7	19-DEC-95
Total Kjeldahl Nitrogen	1.2	MG/L	4500-HN3 H	27-NOV-95
Total Organic Carbon	38888 <b>5°0 0*</b> 38 00860 2860 1874 0.56 1	MG/L	415.2	08 DEC-95
Total Phenois	5.0 * 0.01 U	MG/L	420.1	06-DEC-95
ויאק (UUA) FIICHUIS	0.01 0			





Results are continued from the previous page for 155817-02

Analysis	Result	Units	Method	Anal yzed	
Vanadium	6.7 B	UG/L	200.7	19-DEC-95	
Zinc	30.5 * E	UG/L	200.7	19-DEC-95	

Remarks:

000205

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Client Name: ANEPTEK CORPORATION

Project Name: S

STANDARD

ETL Sample Number: 155893-01

Client I.D.: MW-05-113095

Date Collected: 30-NOV-95

Matrix: 2 GW/WW

Date Received: 30-NOV-95

Comments: STEWART ANG SITE

. Analysis	Result	Units	Method	Analyzed
Alkalinity	139	MG/L 12	2320 B	
Aluminum	55.6 B	UG/L	200.7	20-DEC-95
Ammonia-Nitroger	า 0.2 ูป	48.4 M <b>G/L</b> 1 4, 48.4 d 4	4500-NH3 F	07-DEC-95
Antimony	36.7 B	UG/L	200.7	20 - DEC - 95
Arsenic	1.2 U	John Committee of UG/L	206.2	18-DEC-95
BOD	3.0 U	MG/L	5210-B	01-DEC-95
Barium	33,1 <sub>.</sub> B	UG/L	200.7 (% 4 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6	20-DEC-95 20-DEC-95
Beryllium	1.2 U 12.9 B	UG/L	200.7	20-DEC-95
Boron		MG/L	300	04-DEC-95
Bromide	1.0 U 2.7 U	UG/L	200.7	20-DEC-95
Cadmium Calcium	2:7 0 84900 E	UG/L	200.7	20-DEC-95
Chemical Oxygen		n ng lan lan na m <b>KG/L</b> ibragiya na ng la	410.2	06-DEC-95
Chlorides	83.9	MG/L	4500 CLB	15-DEC-95
Chromium	33.0 33.0	ara, postupo averba d <b>ug/L</b> ationes en si <b>n</b> se	200.7	20-DEC-95
Cobalt	7.1 U	UG/L	200.7	20-DEC-95
Color	2.5	PT-CO	2120-B	01 -DEC -95
Copper	4.6 B	ÜĠ/L	200.7	20-DEC-95
Cyanide, Total		UG/L	335.2	21-DEC-95
Hexavalent Chron	nium 0.01 U	MG/L	7196	01-DEC-95
Iron	"'`" 102 B	UG/L	200.7	20-DEC-95
Lead	0.56 U	UG/L ·	239.2	18-DEC-95
Magnesium	13500 E	ÜG/L	200.7	20-DEC-95
Manganese	709 E	UG/L	200.7	20-DEC-95
Mercury	0.2 U	UG/L	245.1	22-DEC-95
Nickel	14.1 U	UG/L	200.7	20-DEC-95
Nitrate Nitrite	0.2 U	MG/L	353.2	01-DEC-95
Potassium	877	UG/L	200.7	20-DEC-95
Selenium	1.6 U 3.0 B N	UG/L	270.2	19-DEC-95
Silver	3.0 B N	UG/L	200.7	20-DEC-95
Sodium	8960 E	是是是是一点是各位。这"UG/Life 这是 对影響	200.7	20-DEC-95
' Sulfate	20.0	MG/L ,	375.4	27-DEC-95
Thallium	1.6 B	UG/L	279.2	20-DEC-95
Total Dissolved	Solids 336	MG/L	160.1	05-DEC-95
Total Hardness	267	MG/L	200.7	20-DEC-95
Total Kjeldahl I	Nitrogen 0.5 U	MG/L	4500-HN3 H	04-DEC-95
Total Organic C	arbon 0.5 U 0.01 U	MG/L	415.2	08 DEC -95
Total Phenols	0.01 0	MG/L .	420.1	06-DEC-95



Results are continued from the previous page for 155893-01

Analysis	Result	Units	Method	Analyzed
Vanadium	13.1 B	UG/L	200.7	20-DEC-95
Zinc	86.1 * N.E	UG/L	200.7	20-DEC-95

Remarks:

Envirolest Laboratories Inc.

000207

Client Name: ANEPTEK CORPORATION

Project Name:

STANDARD

ETL Sample Number: 155893-02

Client I.D.: MW-15-113095

Date Collected: 30-NOV-95

2 GW/WW Matrix:

Date Received: 30-NOV-95

Comments: STEWART ANG SITE

	Analysis	Result	Units	Method	<b>Ana</b> l yzed
	Alkalinity	148	MG/L	2320 B	05-DEC-95
	Aluminum	59.5 B	UG/L	200.7 4500-NH3 F	20-DEC-95 07-DEC-95
	Ammonia-Nitrogen	0.2 U	MG/L UG/L	200.7	20-DEC-95
	Antimony	44.0 B 1.2 U	UG/L	206.2	18-DEC-95
	Arsenic	3.0 U	MG/L	5210-B	01-DEC-95
	BOD Barium	3.0 U	UG/L	200.7	20-DEC-95
	Beryllium	1.2 U	UG/L	200.7	20-DEC-95
	Boron	***	ŬĞŹĹ	200.7	20-DEC-95
	Bromide	1.0 U	MG/L	300	04-DEC-95
	Cadmium	4.4 B	UG/L	200.7	20-DEC-95
	Calcium	77600 E	UG/L	200.7	20-DEC-95
	Chemical Oxygen Dema	nd 8.0	MG/L	410.2	06-DEC-95
	Chlorides	83.9	MG/L	4500 CLB	15-DEC-95
	Chromium	10.3 U	UG/L	. 200.7	20-DEC-95
	Cobalt	7.1 U	UG/L	200.7	20-DEC-95
	Color	2.5	PT-CO	2120-B	01-DEC-95
	Copper	6.0 B	UG/L	200.7	20-DEC-95
	Cyanide, Total	10.0 U	UG/L	335.2	21-DEC-95
	Hexavalent Chromium	0.01 U	MG/L	7196 200.7	01-DEC-95 20-DEC-95
	Iron	174	UG/L	239.2	18-DEC-95
	Lead	1.2 B	UG/L . UG/L	200.7	20-DEC-95
	Magnesium	12800 E 681 E	UG/L	200.7	20-DEC-95
	Manganese	0.2 U	UG/L	245.1	22-DEC-95
	Mercury	0.2 U 14.1 U	UG/L	200.7	20-DEC-95
	Nickel Nitrate-Nitrite	0.2 U	ΜĠ/Ĺ	353.2	01-DEC-95
	Potassium	817 B	ÜG/L	200.7	20-DEC-95
	Selenium	· · · · · · · · · · · · · · · · · · ·	UG/E	270.2	19-DEC-95
	Silver	3.4 B N	UG/L	200.7	20-DEC-95
	Sodium	26.01.00	UG/L	200.7	20-DEC-95
,	Sulfate	19.5	MG/L	375.4	27-DEC-95
	Thallium	1.2 U	UG/L	\$ 279.2	20-DEC-95
	Total Dissolved Soli	ds 338	· MG/L	160.1	05-DEC-95
	Total Hardness	246	, MG/L	200.7	20°DEC-95
	Total Kjeldahl Nitro	gen 0.5 U	MG/L	4500-HN3 H	04-DEC-95
	Total Organic Carbon	0.5 U	MG/L	415.2	08 DEC -95
	Total Phenols	0.01 U	MG/L	420.1	06-DEC-95



000208

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

NUDEP 73507

Results are continued from the previous page for 155893-02

Analysis	Result	Units	Method	Analyzed
Vanadium	5.4 B	UG/L	200.7	20-DEC-95
Zinc	31.3 * N E	UG/L	200.7	20-DEC-95

Remarks:

000209

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

ANEPTEK CORPORATION Client Name:

Project Name:

STANDARD

ETL Sample Number:

155893-03

Client I.D.: MW-06-113095

Matrix:

2 GW/WW

Date Collected: 30-NOV-95

30-NOV-95 Date Received:

Comments: STEWART ANG SITE

Analysis	Re	esult		Units		Method	Ana l yzed
Alkalinity			1,111	MG/L		2320 B	05-DEC-95 20-DEC-95
Aluminum		51 B		UG/L		4500-NH3	
Ammonia-Nitrogen		.2 บ		MG/L		200.7	20-DEC-95
Antimony		3.4 U		UG/L		206.2	18-DEC-95
Arsenic	1995 - N N N N N N N N			UG/L		5210-B	01-DEC-95
BOD	3	.0 ป		MG/L UG/L		200.7	20-DEC-95
Barium		7.1 B		UG/L UG/L		200.7	20-DEC-95
Beryllium	1	.2 ป		UG/L		200.7	20-DEC-95
Boron		6.2	•	MG/L		300	04-DEC-95
Bromide		.0 U		UG/L	11	200.7	20-DEC-95
Cadmium	<b>₹</b> , \$, \$, \$	.4 B		UG/L		200.7	20-DEC-95
Calcium		4900 E		MG/L		410.2	06-DEC-95
Chemical Oxygen De	mand 1	2.0 6.1		MG/L		4500 CLB	
Chlorides		0.3 U		UG/L	4	200.7	20-DEC-95
Chromium	- 100 - 100 PM	.1 U		UG/L	• .	200.7	20-DEC-95
Cobalt	.88. + 194. <b>5</b>	.n	114	PT-CO		2120-B	01-DEC-95
Color		0.1 B		UG/L	-	200.7	20 - DEC - 95
Copper		0.0 U		UG/L		335.2	21-DEC-95
Cyanide, Total		0.01 Ü		MG/L		7196_	01-DEC-95
Hexavalent Chromic	7"" ·	317		UG/L		200.7	20-DEC-95
Iron		.2 B		UG/L		239.2	18-DEC-95 20-DEC-95
Lead Magnesium		310 E		UG/L		200.7	20-DEC-95
		3.7 E		UG/L	v 1966 199	200.7	20-DEC-95
Manganese Mercury		).2 U		UG/L		245.1 200.7	20-DEC-95
Nickel	s 1938, e . Li niteraers si	14.1 Ü		UG/L	C 1 (1.5) (4000173875)	353.2	01-DEC-95
Nitrate-Nitrite		0.80		MG/L	Surging Park	200.7	20-DEC-95
Potassium		748 B		UG/L UG/L	45 CAMMANA	270.2	19-DEC-95
Selenium		1.6 U		UG/L		200.7	20-DEC-95
Silver	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	5.2 B N		UG/L	18 18 NOSCOLO	200.7	20-DEC-95
Sodium		49900 E		MG/L	2.4	375.4	27-DEC-95
Sulfate		28.0	1444	UG/L	1 3 5 6 6 6 Cm	279.2	20-DEC-95
Thallium		1.2 U W		MG/L	er interprise (€	160.1	05-DEC-95
Total Dissolved S	olids	300 188	1, 83%	MG/L		200.7	20-DEC-95
Total Hardness		188 0.5 U	1,46	MG/L	No. of Manager	4500-HN	13 H 04-DEC-95
Total Kjeldahl Ni	trogen	1.9		MG/L		415.2	08-DEC-95
Total Organic Car Total Phenols	'DON	1.9 0.01 U	1 - 62 ( 6 Th 35%	MG/L		420.1	06-DEC-95

EnviroTest 2 Laboratories Inc. 000210

Results are continued from the previous page for 155893-03

Analysis	Result	Units	Method	Analyzed	
Vanadium	10.2 B	UG/L	200.7	20-DEC-95	
Zinc	121 * N E	UG/L	200.7	20-DEC-95	

Remarks:

EnviroTest Laboratories Inc.

000211

Client Name: ANEPTEK CORPORATION

Project Name:

**STANDARD** 

ETL Sample Number: 155893-04

Client I.D.: MW-08-113095

Date Collected: 30-NOV-95

Matrix:

2 GW/WW

Date Received: 30-NOV-95

Comments: STEWART ANG SITE

	Analysis	Result	Units	Method	Analyzed
	Alkalinity Aluminum Ammonia-Nitrogen	202 448 0.2 U 23.4 U	MG/L UG/L MG/L UG/L	2320 B 200.7 4500-NH3 F 200.7	05-DEC-95 20-DEC-95 07-DEC-95 20-DEC-95
	Antimony Arsenic BOO Barium	23.4 U 1.2 U 3.0 U 38.3 B 1.2 U	UG/L HG/L UG/L UG/L UG/L	206.7 206.2 5210-B 200.7 200.7	18-DEC-95 01-DEC-95 20-DEC-95 20-DEC-95
	Beryllium Boron Bromide Cadmium Calcium	1.2 0 59.5 1.0 U 4.3 B 74200 E	UG/L MG/L UG/L UG/L UG/L	200.7 300 200.7 200.7	20°DEC-95 04-DEC-95 20°DEC-95 20°DEC-95
	Carcium Chemical Oxygen Demar Chlorides Chromium Cobalt		MG/L MG/L UG/L UG/L	410.2 4500 CLB 200.7 200.7	
	Color Color Copper Cyanide, Total Hexavalent Chromium	7.10 7.9 B 10.0 U 0.01 U	PT-CO UG/L UG/L MG/L	2120 · B 200 · 7 335 · 2 7196	01-DEC-95 20-DEC-95 21-DEC-95 01-DEC-95
	Tron Lead Magnesium Manganese	770 1.5 B 9190 E 86.7 E	UG/L UG/L UG/L UG/L UG/L	200.7 239.2 200.7 200.7	20°DEC-95 18-DEC-95 20°DEC-95 20°DEC-95
	Marganese Mercury Nickel Nitrate-Nitrite Potassium	032 U 14.1 U 0270 1470 B	UG/L UG/L MG/L UG/L	245.1 200.7 353.2 200.7	22-DEC-95 20-DEC-95 01-DEC-95 20-DEC-95
	Selenium Silver Sodium Sulfate	1.6.0 5.4 B N 35500 E 46.0	UG/L UG/L UG/L MG/L	270.2 200.7 200.7 375.4	19 DEC-95 20 DEC-95 20 DEC-95 27 DEC-95
	Thallium Total Dissolved Solid Total Handress	1.2 U W is 266	UG/L MG/L MG/L MG/L MG/L	279.2 160.1 200.7 4500-HN3 H	20: DEC - 95 05 - DEC - 95 20: DEC - 95 04 - DEC - 95
pa <sup>‡</sup>	Total Kjeldahl Nitro Total Organic Carbon Total Phenols	1.2 0.01 U	MG/L MG/L	415.2 420.1	08-DEC-95 06-DEC-95

Results are continued from the previous page for 155893-04

Analysis	Result	Units	Method	Analyzed
Vanadium	5.8 B	UG/L	200.7	20-DEC-95
Zinc	32.5 * NE	UG/L	200.7	20-DEC-95

Remarks:

EnviroTest Laboratories Inc.

000213

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

145

Client Name: ANEPTEK CORPORATION

Project Name:

ETL Sample Number: 155893-05

Client I.D.: MW-01-112995

Date Collected: 29-NOV-95

Matrix: 2 GW/WW

STANDARD

Date Received: 30-NOV-95

Comments: STEWART ANG SITE

	Analysis	Result	Units	Method	Anal yzed
	Aluminum	557	UG/L UG/L	200.7 200.7	20-DEC-95
	Antimony	34.1 B	UG/L UG/L	206.2	20-DEC-95 18-DEC-95
	Arsenic	7.3 B	UG/L UG/L	200.2	20-DEC-95
	Barium	14.3 B		200.7	20-DEC-95
•	Beryllium	1.2 U	UG/L UG/L	200.7	20-DEC-95
	Boron	76.6	UG/L	200.7	20-DEC-95
	Cadmium	6.1 35600 E	UG/L	200.7	20-DEC-95
	Calcium	35000 E 14.7	UG/L	200.7	20-DEC-95
	Chromium Cobalt	7.1 U	UG/L	200.7	20-DEC-95
	Copper	9.5 B	UG/L	200.7	20 - DEC - 95
	Cyanide, Total	10.0 U	ŬĠ/L	335.2	21-DEC-95
	Iron		UG/L	200.7	20-DEC-95
	Lead	2.0 B	UG/L	239.2	18-DEC-95
	Magnesium	3380 E B	UG/L	200.7	20 DEC-95
	Manganese	27.3 E	UG/L	200.7	20-DEC-95
	Mercury	0.2 ป	UG/L	245.1	22-DEC-95
	Nickel	14.1 U	ÚG/L	200.7	20-DEC-95
	Potassium	2020 B	UG/L	200.7	20 - DEC - 95
	Selenium	1.6 U	UG/L	270.2	19-DEC-95
	Silver	4.1 B N	UG/L	200.7	20-DEC-95
	Sodium	57900 E	UG/L	200.7	20-DEC-95
	Thallium	1.2 U W	UG/L	279.2	
	Total Hardness	103	MG/L	200.7	20-DEC-95
	Total Phenols	0.01 U	MG/L	420.1	06-DEC-95
	Vanadium	30.8 B	ÜG/L	200.7	20 - DEC - 95
	Zinc	265 * N E	UG/L	200.7	20-DEC-95
			•		

Remarks:

Envirolest Aboratories Inc.

000214

Client Name: ANEPTEK CORPORATION

Project Name:

STANDARD

ETL Sample Number: 155893-06

Client I.D.: MW-01-113095

Date Collected: 29-NOV-95

Matrix:

2 GW/WW

Date Received: 30-NOV-95

Comments: STEWART ANG SITE

Analysis	Result		Units	Method	Analyzed
Alkalinity	131		MG/L	2320 B	05-DEC-95
Ammonia-Nitrogen	0.2 U		MG/L	4500-NH3 F	07-DEC-95
BOD	3.0 0		MG/L	5210-B	
Bromide	1.0 U		MG/L	300	04-DEC-95
Chemical Oxygen Demand	12.0		MG/L	410.2	
Chlorides	2.0 U		MG/L	4500 CLB	15-DEC-95
Color the filter and the		12.0	PT-CO		01-DEC-95
Hexavalent Chromium	0.01 U		MG/L	7196	01-DEC-95
nexavatent chromitum		. ja		353,2	
Nitrate-Nitrite			MG/L	375.4	
Sulfate	76.0				
Total Dissolved Solids	180			160.1	
Total Kjeldahl Nitrogen	0.5 U		MG/L	4500-HN3 H	
Total Organic Carbon	1.3		MG/L	415.2	08-DEC-95

Remarks:

Envirolest Laboratories Inc. 000215

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Client Name: ANEPTEK CORPORATION

Project Name:

STANDARD

ETL Sample Number: 155893-08

Client I.D.: MW-11-113095

Matrix:

2 GW/WW

Date Collected: 30-NOV-95

Date Received: 30-NOV-95

Comments: STEWART ANG SITE

	Analysis	Result	Units	Method	Analyzed
	Alkalinity	278	MG/L ERLA	2320 B - 44 %	05-DEC-95
	Aluminum	59.5 B	UG/L	200.7	20-DEC-95
	Ammonia-Nitrogen	0.2 ป	MG/L	4500-NH3 F	07-DEC-95
	Antimony	23.4 U	UG/L	200.7	20 - DEC - 95
		1.2 U	UG/L	206.2	18-DEC-95
	BOD	3.0 U	MG/L	5210-B	01-DEC-95
	Barium	11.3 B	UG/L	200.7	20-DEC-95
	Beryllium	1.2 U	UG/L	200.7	20-DEC-95
	Boron	9.6 B	UG/L	200.7	20-DEC-95 04-DEC-95
	Bromide	1.0 U	MG/L	200.7	20-DEC-95
	Cadmium	2.7 U	UG/L	200.7	20-DEC-95
	Calcium	103000 E	UG/L	410.2	06-DEC-95
	Chemical Oxygen Demand	4.0 U	MG/L: MG/L	4500 CLB	15-DEC-95
	Chlorides	11.6	UG/L	200.7	20-DEC-95
	Chromium	្សា0.3 ប	UG/L	200.7	20-DEC-95
	Cobalt	7.1 U	PT-CO	2120-B	01-DEC-95
	Color Color	2.5 2.7 U	UG/L	200.7	20-DEC-95
	Copper	2.7 U 10.0 U	UG/L	335.2	21-DEC-95
	Cyanide, Total	0.01 U	MG/L	7196	01-DEC-95
	Hexavalent Chromium	81.6 B	ÜĞZL	200.7	20-DEC-95
	Iron Lead	0.87 B	UG/L	239.2	18-DEC-95
		9000 E	ŬĜŹ	200.7	20 -DEC - 95
	Magnesium	40.9 E	UG/L	200.7	20-DEC-95
	Manganese	ู้ ขึ้น ขึ้น	ÜĞ/L	245.1	22-DEC-95
	Mercury Nickel	14.1 U	UG/L	200.7	20-DEC-95
	Nitrate Nitrite	0.77	MG/L	353.2	01-DEC-95
	Potassium	1200 B	UG/L	200.7	20-DEC-95
	Selenium	1.6 U	UG/L SSSS	270.2	19-DEC-95
	Silver	2.8 B N	UG/L	200.7	20-DEC-95
	Sodium	17500 E	UG/L	200.7	20 DEC - 95
	Sulfate	46.0	MG/L	375.4	27-DEC-95
	Thallium	1.2 U W	UG/L <	279.2	20-DEC-95
	Total Dissolved Solids	322	MG/L	160.1	05-DEC-95
	Total Hardness	295	MG/L	200.7	20-DEC-95
	Total Kjeldahl Nitrogen	0.5 ป	MG/L	4500-HN3 H	04-DEC-95
	Total Organic Carbon	6.3	MG/L	415.2	08-DEC-95
	Total Phenols	0.01 U	MG/L	420.1	06-DEC-95
:					

NJOEP 73507

Results are continued from the previous page for 155893-08

Analysis	Result	Units	Method	Analyzed	
Vanadium	6.6 B	UG/L	200.7	20-DEC-95	
Zinc	6.7 ★ N E	UG/L	200.7	20-DEC-95	

Remarks:

Envirolest Laboratories Inc.

NUDEP 73507

Client Name: ANEPTEK CORPORATION

Project Name:

STANDARD

ETL Sample Number: 155893-14

Client I.D.: MW-07-113095

Matrix:

2 GW/WW

Date Collected: 30-NOV-95

Date Received: 30-NOV-95

Comments: STEWART ANG SITE

Analysis	Result	Units	Method	Analyzed
Alkalinity	323	MG/L	2320_B	05-DEC-95
Aluminum	92.8 B	UG/L	200.7	20-DEC-95
Ammonia-Nitrogen	0.2 U	MG/L	4500-NH3 F	07-DEC-95
Antimony	23.4 U	UG/L	200.7	20-DEC-95
Arsenic	1.2 U	UG/L	206.2	18-DEC-95
BOD	3.0 U	MG/L	5210-B	01-DEC-95
Barium	11.7 B	UG/L	200.7	20-DEC-95
Beryllium	1.2 U	UG/L	200.7	20-DEC-95
Boron	27.5 B	UG/L	200.7	20-DEC-95
Bromide	1.0 U	MG/L	300	04-DEC-95
Cadmium	4.8 B	·UG/L	200.7	20-DEC-95
Calcium	120000 E	UG/L	200.7	20-DEC-95
Chemical Oxygen Demand	4.0 U	MG/L	410.2	06-DEC-95
Chlorides	39.5	MG/L	4500 CLB	15-DEC-95
Chromium	11.8	UG/L	200.7	20-DEC-95
Cobalt	7.1 U	UG/L	200.7	20-DEC-95
Color	5.0	PT-CO	2120-B	01-DEC-95
Copper	5.0 2.7 U	UG/L	200.7	20-DEC-95
Cyanide Total	10.0 U	UG/L	335.2	21-DEC-95
Hexavalent Chromium	0.01 U	MG/L	7196	01-DEC-95
Iron	111 B	UG/L	200.7	20-DEC-95
Lead	1.2 B	UG/L	239.2	18-DEC-95
Magnesium	19200 E	UG/L	200.7	20-DEC-95
Manganese	260 E	UG/L	200.7	20-DEC-95
Mercury	0.2 U	UG/L	245.1	22-DEC-95
Nickel	14.1 U	UG/L	200.7	20-DEC-95
Nitrate-Nitrite	0.32	MG/L	353.2	01-DEC-95
Potassium	1190 B	UG/L	200.7	20-DEC-95
Selenium	1.6 U W	UG/L	270.2	19-DEC-95
Silver	4.6 B N	UG/L	200.7	20-DEC-95
Sodium	22500 E	UG/L	200.7	20-DEC-95
Sulfate	42.0	MG/L	375.4	27-DEC-95
Thall i um	1,2 U W	UG/L dilama ≰iin	279.2	20-DEC-95
Total Dissolved Solids	424	MG/L	160.1	05-DEC-95
Total Hardness	379 0.5 U	MG/L	200.7	20-DEC-95
Total Kjeldahl Nitrogen	0.5 U	MG/L	4500-HN3 H	04-DEC-95
Total Organic Carbon	0.57	MG/L	415.2	08-DEC-95
Total Phenols	0.01 U	MG/L	420.1	06-DEC-95

EnviroTest Laboratories Inc. 000518

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Results are continued from the previous page for 155893-14

Analysis	Result	Units	Method	Analyzed	
Vanadium	5.5 B	UG/L	200.7	20-DEC-95	
Zinc	167 * N E	UG/L	200.7	20-DEC-95	

Remarks:

Envirollest Laboratories Inc.

CCC23.9

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

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#### 2A WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

	מקק .	SMC1	SMC2	SMC3	OTHER	TOT
	EPA SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#	OTILLIC	OUT
	SAMPLE NO.	(101)#	(DrD)#	(DCB)#		===
0.1	MW01112995	100	98	104		0
01	MW05113095	$\frac{100}{102}$	100	$\frac{101}{108}$		<del></del>
02	MW06113095	96	96	$\frac{100}{100}$		<del>       </del>
03	MW07	$\frac{36}{102}$	102	$\frac{100}{102}$		$\left  \frac{0}{0} \right $
04	MW07MS	$\frac{102}{108}$	$\frac{102}{110}$	108		$\frac{3}{0}$
05	MW07MSD	$\frac{106}{106}$	106	$\frac{108}{108}$		0
06		$\frac{100}{100}$	98	$\frac{100}{104}$		<del>- 0</del>
07	MW08113095	$\frac{100}{100}$	$\frac{-38}{100}$	$\frac{104}{106}$		$\frac{3}{6}$
80	MW09112995	$\frac{100}{100}$	$\frac{100}{100}$	106		<del>       </del>
09	MW10112995	$\frac{100}{100}$	$\frac{100}{100}$	$\frac{100}{106}$		<del>   </del>
10	MW11113095	98	96	102		$\left  \frac{\ddot{o}}{\ddot{o}} \right $
11	MW15113095	$\frac{98}{104}$	$\frac{36}{104}$	$\frac{102}{108}$		$\left  -\frac{6}{6} \right $
12	TB-1129	$\frac{104}{102}$	$\frac{104}{102}$	102		$\left  -\frac{6}{6} \right $
13	TB-113095		100	$\frac{102}{100}$		$\frac{6}{6}$
14	VBLKC2	100	$\frac{100}{104}$	$\frac{100}{104}$		$\left  \frac{0}{0} \right $
15	VBLKC3	104	$\frac{104}{106}$	104		$\left  -\frac{6}{6} \right $
16	VBSPK	106		1— <u>100</u>		<del></del>
17			<del></del>			
18						
19						
20						lI
21						<u> </u>
22			<del></del>		<u></u>	
23						
24			l <del></del>			
25				ļ ———		
26				<u> </u>		
27						
28		<b></b>		<b> </b>		
29				<u> </u>		
30	l	l	1	1	I ———	١١

SMC1 (TOL) = Toluene-d8 (88-110) SMC2 (BFB) = Bromofluorobenzene (86-115) SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

- # Column to be used to flag recovery values
- \* Values outside of contract required QC limits
- D System Monitoring Compound diluted out

# WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Code:10142

Case No.:#####

SAS No.:##### SDG No.:AC817

Matrix Spike - EPA Sample No.:

MW07

COMPOUND	SPIKE	SAMPLE	MS	MS	QC.
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
1-Dichloroethene Benzene Trichloroethene Dluene Ilorobenzene	20. 20. 20. 20. 20. 20.	0. 0. 0. 0.	20. 21. 20. 21. 21.	100 105 100 105 100	83-136 64-170 68-131 64-132 91-115

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD   REC.	
,1-Dichloroethene Benzene Trichloroethene bluene nlorobenzene	20. 20. 20. 20. 20. 20.	20. 21. 21. 21. 21. 21.	100 105 105 105 105	0 0 5 0 5	11	83-136 64-170 68-131 64-132 91-115

# Column to be used to flag recovery and RPD values with an asterisk

Values outside of QC limits

0 out of

5 outside limits

ike Recovery:

0 out of 10 outside limits

COMMENTS:

### VOLATILE WATER BLANK SPIKE RECOVERY

Client Name: Aneptek

Lab Name: EnviroTest Laboratories, Inc.

ETL Sample No.: VBSPK

Client Sample ID.: VBSPK

Date of Analysis: 12/7/95

Instrument ID: MSD

	SPIKE	SAMPLE	BLKSPK	BLKSPK	QC
	ADDED	CONCENTRATION	CONCENTRATION	8	LIMITS
COMPOUND	(ug/1)	(ug/l)	(ug/l)	REC. #	REC.
	======	=======================================	=======================================	=======	=======
1,1-Dichloroethene	20.00	Ū	21	105.0	83-136
Trichloroethene	20.00	ט	22	110.0	64-170
Benzene	20.00	υ	21	105.0	68-131
Toluene	20.00	ប	21	105.0	64-132
Chlorobenzene	20.00	U	21	105.0	91-115
	ĺl				ll

- # Column to be used to flag recovery values
- \* Values outside of EnviroTest established QC limits

FORM III VOA-1

6 **DUPLICATES**  EPA SAMPLE NO.

MW0911D

Lab Name: ENVIROTEST LABORATORIES Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE817

Matrix (soil/water): WATER

Solids for Sample: 100.0

Level (low/med): LOW

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

FORM VI - IN

FAX (914) 562-0841

6 DUPLICATES EPA SAMPLE NO.

MW0511D

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE893

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

	Control							
Analyte	Limit	Sample (S)	C	Duplicate (D)	C	RPD	ĮQ	M
Aluminum		55.6100	B	60.4457	В	8.3	-	PM
Antimony		36.6807	BU	23.4444	์ บิ	200.0		PM
Arsenic		1.2222	ਹ	1.2222	Ū			FM
Barium		33.0902	B U	36.0908	BU	8.7		PM PM
Beryllium		1.2222	ប	1.2222	<u>u</u>			PM
Cadmium	-	2.6667	$\overline{\mathbf{v}}$	3.6791	$ \overline{\mathbf{B}} $	200.0		PM PM
Calcium		84867.8860		86994.9690		2.5		
Chromium	11.1	13.0190		10.3333	힌	200.0	_	PM PM
Cobalt		7.1111	บิ	7.1111	Ū		I_	
Copper		4.6061	B B U	5.9343	$\overline{\mathbf{B}}$	25.2	l I_	PM
Iron	111.1	102.2789	В	113.9173	_	10.8		PM
Lead		0.1111	U	0.5556	$ \overline{B} $	200.0	_	FM
Magnesium	5555.6	13476.5520	$ \_ $	14289.9470	$I_{-}I$	5.9		PM
Manganese		708.8723	_	755.9981		6.4	_	PM
Mercury		0.2000	$\overline{\mathbf{U}}$	0.2000	Ū		_	CV
Nickel		14.1111	Ū	14.1111	$\overline{\mathbf{U}}$		_	PM
Potassium		876.8428	B U	945.6148	B U	7.5	_	PM
Selenium		1.5556	ש	1.5556	<u>u</u>		_	FM
Silver		2.9824	$\overline{\mathbf{B}}$	4.4140	B	38.7	_	PM
Sodium	5555.6	8956.0720		9565.0470	1_1	6.6	_	PM
Thallium		1.6444	B	1.2222	Ū	200.0	_	FM
Vanadium		13.0563	B	12.0963	B	7.6	_	PM
Zinc	22.2	86.0689	1 1	40.1708	1_1	72.7	*	PM C
Cyanide		10.0000	ਧ	20.000,0	힐		_	<u> </u>
			_		. _	1	_	<u>                                     </u>

### 5A SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW0911S

Lab Name: ENVIROTEST LABORATORIES Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE817

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): UG/L

	Control								
	Limit	Spiked Sample	ļ	Sample		Spike			
Analyte	%R	Result (SSR)	С	Result (SR)	С	Added (SA)	%R	Q	M
_								_	
Aluminum	75-125	2338.0026		616.4996		2000.00	86.1	_	PM
Antimony	75-125	500.5831		23.4444	U	500.00	100.1		PM
Arsenic	75-125	38.7667		1.2222	U	40.00	96.9	_	FM
Barium	75-125	1845.6050	_	102.5558		2000.00	87.2	_	PM
Beryllium	75-125	42.5161		1.2222	<u>ש</u>	50.00	85.0	_	<u>PM</u>
Cadmium	75-125	45.0613		2.6667	<u>ש</u>	50.00	90.1	_	PM
Calcium			_					_	NR
Chromium	75-125	183.7259		10.3333	U	200.00	91.9	_	PM
Cobalt	75-125	418.2586		7.1111	U	500.00	83.7	_	PM
Copper	75-125	213.4670		3.0466	<u>B</u>	250.00	84.2	1	PM
Iron	75-125	2295.3072	_	1520.0576	_	1000.00	77.5	_	PM
Lead	75-125	15.7333		2.3111	В	20.00	67.1	N	FM
Magnesium					_			_	NR
Manganese	75-125	1841.4470	-	1385.6426	_	500.00	91.2	_	PM
Mercury	75-123	1.0020	_	0.2000		1.00	100.2	_	CV
Nickel	75-125	420.4898		15.8992	<u>B</u>	500.00	80.9		PM
Potassium					_			_	NR
Selenium	75-125	7.8889	_	1.5556	ਧ	10.00	78.9	_	FM
Silver	75-125	35.1918		2.1111	$\overline{\underline{u}}$	50.00	70.4	N	PM NR
Sodium			l_		_			<b> </b> _	
Thallium	75-125	57.4556	<b> </b> _	1.2222	፱	50.00	114.9	_	FM
Vanadium	75-125	438.3422		11.4279	B	500.00	85.4	<b>I</b> _	PM
Zinc	75-125	459.4212		75.1858	_	500.00	76.8	<b>I</b> _	PM
Cyanide	75+125	88.0000	I_	10.0000	U	100.00	88.0	_	C
	21000		I –			_ <		1_	

mments:

FORM V (PART 1) - IN

### 5A SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW0511S

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE893

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample:

0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L  $\,$ 

1							-		
Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	С	Spike Added (SA)	%R	Q	M
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125 75-125	1923.1403 531.6727 33.9556 1644.9170 45.6053 50.3859 188.5690 456.5053 228.4091 1015.4919 16.8667		55.6100 36.6807 1.2222 33.0902 1.2222 2.6667 13.0190 7.1111 4.6061 102.2789 0.1111		2000.00 500.00 40.00 2000.00 50.00 50.00 200.00 200.00 250.00 1000.00 20.00	93.4 99.0 84.9 80.6 91.2 100.8 87.8 91.3 89.5 91.3 84.3		PM PM PM PM PM PM NR PM PM PM PM PM PM
Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc Cyanide		1136.7750 1.0090 429.0337 8.4889 38.1754 57.7000 466.0927 460.4068 88.0000		708.8723 0.2000 14.1111 1.5556 2.9824 1.6444 13.0563 86.0689 10.0000	Ū	500.00 1.00 500.00 10.00 50.00 500.00 500.00 100.00	85.6 100.9 85.8 84.9 70.4 112.1 90.6 74.9 88.0		PM CV PM NR FM PM PM PM PM PM

Comments:

FORM V (PART 1) - IN

### U.S. EPA - CLP

		5B			EP	Α	SAMPLE	N
POST	DIGEST	SPIKE	SAMPLE	RECOVERY				

			А	
LABORATORTES	Contract:	STEWART		

Lab Name: ENVIROTEST LABORATORIES

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE817

Matrix (soil/water):

Level (low/med):

Concentration Units: ug/L

		·							
Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	С	Spike Added (SA)	%R	Q	м
Aluminum			T		$\Box$			-	$\overline{NR}$
Antimony			1-1		-			-	NR NR
Arsenic		,	-		-			-	NR
Barium			-		_			-	NR
Beryllium			-		-			-	NR
Cadmium			1-1		-				NR
Calcium			1-1		-			-	NR
Chromium			- -		-			-	NR
Cobalt			·		-			-	NR
Copper			-	<u></u>	-	·		-	NR
Iron			1-1		-			-	NR
Lead	l ———		- -		-	• .		-	NR
Magnesium			-		-			-	NR
Manganese		1.	- -		-			-	NR
Mercury	400		-1-		-				NR
Nickel			-		_				NR
Potassium			-		-				NR
Selenium					_				NR
Silver	<del></del> -		-		-			1	NR
Sodium	l		-   -		_				NR
Thallium			-		-				NR NR
Vanadium			.1-		-				NR NR
Zinc			-[-		-				NR
Cyanide	-	. `	.1_		-				$\overline{\mathtt{NR}}$
			-1-		_	ζ			

mments:

FORM V (PART 2) - IN

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315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841 5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW0511A

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE893

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

,									,
Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	С	Spike Added (SA)	%R	Q	М
Aluminum			_		_			-  -	NR NR
Antimony					-			-	NR
Arsenic			_		-			-	NR
Barium			_		_			-	NR
Beryllium			_		-			-	NR
Cadmium			-	<del></del>	-	-		-	NR
Calcium			<b> </b>					-	NR
Chromium			-		_			-	NR
Cobalt		· · · · · · · · · · · · · · · · · · ·	-		-			-	NR
Copper		<del></del>	<b> </b> –					-	NR
Iron			-		_			-	NR
Lead			_		-	· · · · · · · · · · · · · · · · · · ·		-	NR
Magnesium	<del></del>		_		_			-	NR
Manganese			-		<b>—</b>			-	NR
Mercury					_			-	NR
Nickel			-		-			-	NR
Potassium Selenium			-		<u></u> ·			-	NR
			-		-			-	NR
Silver Sodium			-		-			-	NR
			-		-		<del></del>	-	NR
Thallium			-		-			-	NR
Vanadium		147.33	-	77.46	-	88.0	79.4	-	PM
Zinc		147.33	-	17.40				-	NR
Cyanide			-		-			-	
1	I	1	1	1	i	I .	l	1_	I I

Comments:

FORM V (PART 2) - IN

### METHOD BLANK MATRIX SPIKE AND DUPLICATE RESULTS

**ENVIROTEST LABORATORIES** 

LAB ID: CLIENT NAME: CLIENT ID:

MATRIX:

10142 ANEPTEK

MW0911 AQUEOUS

ı IC ---- ... Accordance

DATE RECEIVED:

REPORT DATE:

11/29/95

12/22/95

RESULTS IN MG/L

							:	SAMPLE +			1	METHOD	
	ANALYTE	RESULT	Q	DUPLICATE	α	RPD	Q	SPIKE	SPIKE	%REC.	Q	BLANK	_
/11	ALKALINITY	18.20		18.20		0.0		117.20	100	99.0		2.0	U
( , ,	AMMONIA	0.20	u		U	0.0		1.00	1.0	100.0		0.2	U
(1)	BOD	110.00	Ť	102.00		7.5				NR		1.0	U
	BROMIDE	1.00	U	1.00	U	0.0		2.69	2.0	134.5	N	1.0	U
	CHLORIDE	158.00		158.00		0.0		51.70	20	100.5		2	U
	COD	12.00		16.10		29.2	•	60.20	50	108.5		2.0	U
	HEXCHROME	0.01	U	0.01	U	0.0		0.019	0.02	95.0		0.01	U
	NO3-NO2	0.20	U	0.20	U	0.0		0.53	0.5	106.0		0.2	U
	SULFATE	38.00		38.00		0.0		29.00	10	100.0		5.0	U
	TDS	764.00		800.00		4.6				NR		2.0	U
	TKN	0.50	U	0.50	· U	0.0		3.30	3	165.0	N	0.5	U
	TOC	3.40		2.60		26.7	•	22.50	20	95.5		0.5	U
	PHENOLS	0.01	U	0.03	U	0.0		0.016	0.02	0.08		0.01	U

<sup>(1)</sup> Batch related Quality control

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Laboratories Inc.

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

### METHOD BLANK MATRIX SPIKE AND DUPLICATE RESULTS

ENVIROTEST LABORATORIES LAB ID: 10142

CLIENT NAME:

10142 ANEPTEK

CLIENT ID: MATRIX:

MW0511 AQUEOUS DATE RECEIVED: REPORT DATE:

11/30/95 12/29/95

RESULTS IN MG/L

						;	SAMPLE +			1	METHOD	
ANALYTE	RESULT	Q	DUPLICATE	Q	RPD	Q	SPIKE	SPIKE	%REC.	Q	BLANK	_
ALKALINITY	139.00		137.00		1.4		240.40	100	101.4		2.0	U
AMMONIA	0.20	U	0.20	U	0.0		1.10	1.0	110.0		0.2	U
BOD	3.00	Ū	3.00	Ü	0.0				NR		1.0	U
BROMIDE	1.00	-	1.00	Ū	0.0		2.20	2.0	110.0		1.0	U
CHLORIDE	83.90	_	84.90		1.2		61.70	20	98.8		2	U
COD	10.00		4.00	U	NC		52.20	50	94.4		2.0	U
HEXCHROME	0.01	U	0.01	U	0.0		0.021	0.02	105.0		0.01	U
NO3-NO2	0.20	Ū	0.20	U	0.0		0.49	0.5	98.0		0.2	U
SULFATE	20.00	-	20.00		0.0		38.00	20	90.0		5.0	U
TDS	336.00		360.00		6.9				NR		2.0	U
TKN	0.50	U	0.50	U	0.0		2.10	2.0	105.0		0.5	U
TOC	0.50	U	0.50	U	0.0		20.09	20	100.4		0.5	U
PHENOLS	0.01	U	0.03	U	0.0		800.0	0.010	0.08		0.01	U

Envirolest 🔛 Laboratories Inc. 000249

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

ab Name:ENVIROTEST LABS INC. Contract:STEWART ANG

VBLKC2

Lab File ID:V4469

Lab Sample ID: VBLKC2

te Analyzed:12/06/95

Time Analyzed:0044

GC Column:DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

istrument ID:MSD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

1	EPA	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
1	==========	=======================================		========
01	MW01112995	155893-05	V4475	1704
02	MW05113095	155893-09	V4477	1830
03	MW06113095	155893-12	V4480	2040
04	MW08113095	155893-11	V4479	1957
05	MW09112995	155817-01	V4472	1454
06	MW10112995	155817-02	V4473	1537
07	MW11113095	155893-08	V4476	1747
08	MW15113095	155893-10	V4478	1913
09	TB-1129	155817-03	V4471	1411
10				
11				
12				
13				
14				
15		•		
16				
17				
18				
19			•	
20				
21				
22				
23				
24				
25				
26				
27				l <del> </del>
28				
29				
30				l

COMMENTS:

1 of

FORM IV VOA

3/90

# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: ENVIROTEST LABS INC. Contract: STEWART ANG

VBLKC3

SDG No.:AC817

Lab File ID:V4483

Lab Sample ID: VBLKC3

Date Analyzed:12/07/95

Time Analyzed:1610

GC Column:DB-624 ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID:MSD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

- 1	EPA	LAB	LAB	TIME
- 1	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	==========			========
01	MW07	155893-13	V4485	1748
02	MW07MS	155893-13MS	V4488	1957
03	MW07MSD	155893-13MSD	V4489	2041
04	TB-113095	155893-07	V4486	1831
05	VBSPK	VBSPK	V4487	1914
06	VBSIK	42011		
07				
08				
09				
10				
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14				·
15	<del></del>			
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25 26				
26 27				
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29	· · · · · · · · · · · · · · · · · · ·			
30	]	l	1	l

COMMENTS:

page

FORM IV VOA

3/90

### 3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE817

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

1 <del></del>	Initial	Т								T		Т	1
	Calib.	-	Conti	nu	ina	Calib	ora	tion			Prepa-		
j	Blank	1				(ug/I				- 1	ration	1	
Analyte		c	1	C		2	Ċ	:	3	c	Blank C	2	M
Analyce	(49/2)		_							1		_	
Aluminum	.17.4	ប	17.4	U		23.6	<u>В</u>				19.333 U	]	PM PM FM PM PM
Antimony	21.1	ΰl	21.1	Ŭ		21.1	ប				23.444	7	PM
Arsenic	1.1	ਹ	1.1	Ū		1.1	ប		1.1	<u></u>	1.222	1	FM
Barium	0.7	Ū	0.7	Ū		0.8	$\overline{\mathbf{B}}$				0.778		PM
Beryllium	1.1	ਹ	1.1	$\overline{\mathbf{U}}$		1.1	ប៊				1.222	]	PM
Cadmium	2.4	Ū	2.4	$\overline{\mathbf{U}}$		2.4	U				2.667		PM
Calcium	10.3	Ū	10.3	$\overline{\overline{\mathbf{U}}}$		13.0	GIWIG				11.444 U		
Chromium	9.3	वावावावावावावावा	9.3	<u><u>u</u> <u>u</u></u>		9.3	U		<u> </u>	_	10.333		PM
Cobalt	6.4	$\overline{\mathbf{U}}$	6.4	U		-6.9	<u>B</u>			_	7.111	1	FW PW
Copper	2.4	Ū	2.4	$\overline{\mathbf{U}}$		3.9	B  B  U			_			PM
Iron	5.2	U	5.2	$\overline{\underline{\mathbf{U}}}$		5.2	ש			_	5.778	41	PM
Lead	*2.0.1	U	0.2	$\mathbf{\underline{\overline{B}}}$		-0.4	ម្រាធា		-0.1	B	0.322	3	MT
Magnesium	14.0	U	14.0	$\overline{\overline{\mathbf{U}}}$	i	-16.7	<u>B</u>			_	-26.763 I	2	EM P
Manganese	<b>3</b> € 0 . 9	U	0.9	$\overline{\underline{\mathbf{v}}}$	ļ	0.9	U			_	1.000	֓֞֞֟֞֓֓֓֓֟֓֓֓֓֓֓֓֓֟֓֓֟֓֓֓֟֓֓֓֟֓֓֓֟֓֓֓֟֓	
Mercury	0.2	U	0.2	$\frac{\overline{\overline{U}}}{\overline{U}}$		0.2	<u>นี</u>		0.2	힐	0.200		딾
Nickel	12.7		12.7			12.7	<u>u</u>			_	14.111	4	믎
Potassium	60.7	alala	60.7	Ū	<b>-</b>	64.0	B U			=	67.444	<u>ק</u>	PM FM
Selenium	1.4	<u>U</u>	1.4	$\overline{\underline{\mathbf{U}}}$		1.4	Ē		1.4	፱	1.556	4	PM
Silver	1.9	ש	1.9	Ū	<b> </b>	3.7	B		<del></del>	-	2.111	<u></u>	PM
Sodium	22.8	$\overline{\underline{u}}$	22.8	Ū	l	43.3	B U	ļ <u></u>		=	25.333		EM
Thallium	1.1	$\overline{\underline{v}}$	1.1	Ū		1.1	발		1.1	፱	1.222	Ü	DM TM
Vanadium	3.1	<u>บี</u>	3.1	ਧ		3.1	ĮΨ	<b> </b>		-	3.444	띩	FM PM PM C
Zinc	1.3	<u>u</u>	1.3	ਧ		1.6	BU			-	3.047	B	FM
Cyanide	10.0	Ü	10.0	Ū	<b> </b>	10.0	ĪΩ			-	10.000	낔	-
		_		l	<b> </b>		<b> </b> _	l		1_1	l	_1	l

FORM III - IN

### 3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE817

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С			ning Calil Lank (ug/l 2		ation 3	С	Prepa- ration Blank	С	M
Aluminum Antimony Arsenic Barium		1 1 1	1.1	_ <u>u</u> _	1.1	_ <u>U</u> _	1.1	<u><u></u> <u></u> <u> </u> <u> </u></u>			<u>FM</u>
Beryllium Cadmium Calcium Chromium Cobalt								_ _ _			
Copper Iron Lead Magnesium		_ _ _ _	0.2	_ <u>B</u> _	0.4	<u>В</u>	6.2	 		- - -	<u>FM</u>
Manganese Mercury Nickel Potassium Selenium		-  -  -	0.2	<u>u</u> -	0.2	<u>च</u> - च	0.2			_ _ _	CV — FM
Silver Sodium Thallium Vanadium			1.1	_ _ _ 	1.1	_ _ _ 	1.1	_ _ _ 		_ _ _ _	<u>FM</u>
Zinc Cyanide		-  -		-  -  -		-  -  -		-  -  -		-  -	

FORM III - IN

ILM02.0

Envirolest

000234

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841 U.S. EPA - CLP

3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE817

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С	Conti		uing Calil lank (ug/1 2		ation 3	С	Prepa- ration Blank	С	М
Aluminum		П								_	-
Antimony		-		_		-		_			
Arsenic			1.1	$\overline{\mathbf{U}}$	1.1	Ū	1.1	ប			FM
Barium		-		_		_					
Beryllium		-		_		_					
Cadmium		-									
Calcium		-		_							
Chromium		-		_			٠.				I
Cobalt		-				_					
Copper		-									
Iron		_									
Lead		-	-1.8	$\overline{\mathbf{B}}$	-1.0	$\overline{\mathbf{B}}$					FM
Magnesium								_			
Manganese								_			_
Mercury				_		<u> </u>		_			
Nickel						<b> </b> _				_	
Potassium						<u> </u>					
Selenium			1.4	$\overline{\mathbf{U}}$	1.4	Ū				_	FM
Silver											
Sodium											1_
Thallium			1.1	Ū				$ \_ $		_	<u>FM</u>
Vanadium										_	
Zinc				I_				_		_	
Cyanide								_			
								_			1

FORM III - IN

### 3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE893

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

	Tuitial							$\neg \tau$	ļ	П	I
	Initial Calib.		Conti	nıı	ing Cali	hra	ation	- 1	Prepa-	Ш	
	Blank				lank (ug/		201011		ration	П	
3 3				C D1	2	C.	3	c	Blank C	П	М
Analyte	(ug/L)	C	1	C	2	C	J		Diank C	П	11
Aluminum	17.4		17.4	ŪΙ	17.4	III	17.4	Π	19.333 U	П	$\overline{\mathtt{PM}}$
Antimony	21.1	퓌	21.1	ŏ	21.1	ប្	21.1	<del>ט</del>	23.444 U	П	$\overline{PM}$
Arsenic	1.1	ממממ			1.1	ប៊	1.1	Ü	-2.044 B	П	PM FM
Barium	0.7	쓹	1.1	듥	0.7	Ħ	0.7	Ü	0.778	П	$\overline{PM}$
Beryllium	1.1	Ü	1.1	U B U	$\frac{0.7}{1.1}$	<del>׆</del> <del>บ</del>	1.1	<del>ă</del> l	0.778 U 1.222 U	П	
Cadmium	$\frac{1.1}{2.4}$	끍	2.7	듬	2.4	듥	3.1	<del>B</del>	$3.787$ $\overline{B}$	11	PM
Calcium	$\frac{2.4}{17.8}$	<u>U</u> B	21.6	B B	10.3	<u>ü</u>	10.3	UBU U	11.444 10.333 U	П	PM PM PM PM
Chromium	9.3	릙	9.3	照	9.3	ਹ	9.3	ΰ	10.333	П	PM
	6.4	$\frac{3}{0}$	6.4	<del>ט</del> ט	$\frac{5.3}{6.4}$	ี่ยี	6.4	Ü	$\frac{-8.324}{B}$	Ш	PM
Cobalt	3.1	듥	4.6	ᇙ	2.4	Ü	2,4	ਹ	-8.324 B 3.185 B 6.759 B	11	PМ
Copper	5.2	ជាធាជាធា	5.2	뒨	5.2	#	5.2	<u>ี้</u>	6.759 B	Ш	₽M
Iron		片	0.3	핅	0.4	U B	$\frac{3.2}{0.1}$	ฮ	0.856 B 15.556 U	11	FM
Lead		유		딁	$\frac{0.4}{14.0}$	籄	14.0	ਚ	15.556 U	Н	ÞМ
Magnesium	14.0	$\frac{\upsilon}{\upsilon}$	14.0	핅	0.9	U	0.9	<b>5</b>	1.000		Mq
Manganese	0.9	Ä	0.9	ö	0.9	片	0.3	<del>                                    </del>	0.200		증
Mercury	0.2 12.7	U U	10.2	띩	12.7	<u>บี</u>	12.7	히	$\frac{0.200}{-15.171}$ B		결정되었었었었었었었
Nickel		Ë		籄		片	60.7	히	$ \begin{array}{c c}     \hline                                $		₽M
Potassium	60.7	$\overline{\underline{\mathbf{u}}}$		빙	60.7	IH	1.4	등	1.556		FM
Selenium	1.4	Ŭ B		B	1.4	משום	$\frac{1.4}{1.9}$	핑	$\frac{1.330}{2.111}$		DM
Silver	3.0	Ē		$\frac{B}{B}$		۱∺	$\frac{1.9}{22.8}$	មី	$ \begin{array}{r}     \hline                                $		PM PM
Sodium	-25.1	B		<u>n</u>	22.8	<del>ปี</del>		Ü	1.222		FM
Thallium	1.1	$\overline{\underline{u}}$	1.1	취	1.1	造	3.1	Ӹ	$ \begin{array}{c c}  & 23.333 \\ \hline  & 1.222 \\ \hline  & 3.444 \\ \hline  & 0 \end{array} $		PM
Vanadium	3.1	<u>บ</u>	-6.3	B B U	3.1	世		삥	1.444 U		DM
Zinc	1.3	Ū	1.5	픾	1.3		1.3	ഥ	$ \begin{array}{r}     \hline                                $		PM C
Cyanide	10.0	<u><u><u></u></u></u>	10.0	브	10.0	12		-	10.000	-	اك
		_		_	İ	1_	l	1_1	ll_	.	l

FORM III - IN

U.S. EPA - CLP

3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE893

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С	Conti 1	ini Bl	ling Calil Lank (ug/l 2	bra L) C	ation 3	С	Prepa- ration Blank	С	М
Aluminum								$\exists l$		_	
Antimony						_		_		_	
Arsenic			1.1	$\overline{\mathbf{U}}$	1.1	Ū	1.1	$\overline{\mathbf{U}}$		_	FM
Barium				_		_		_		_	
Beryllium				_		_		_		-	
Cadmium		_		_		_		_		1–1	
Calcium		_		_		_	<u> </u>	-		-	
Chromium		_		-		_	<u> </u>	-		-	1-1
Cobalt		_		<b> </b>		-	<del></del>	-		-	
Copper		_		<b> </b>		-		-		-	11
Iron		_		$\overline{\mathbf{B}}$	0.1	B	-0.2	B		-	FM
Lead		_	0.2	므	<del></del>	브		=		-	
Magnesium		<b> </b>		-	[ <del></del>	-		-		-	
Manganese		-	0.2	ប៊	0.2	ប		-		-	CV
Mercury Nickel		-		=		۱۲				-	
Potassium		<b> </b> –		-		-		-		-	1-1
Selenium		-	1.4	ប៊	1.4	U	1.4	ਹ		-	FM
Silver		-		ĬŤ		-		-			
Sodium	l <del></del>	-		-		-		1-1		-	
Thallium		-	1.1	ប៊		-	<	-			FM
Vanadium		-		-		-					
Zinc		1-		-		-					
Cyanide		_		-						_	<u>                                    </u>
		-		1				1_1		. _	

FORM III - IN

### 3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE893

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С	Conti	lnı B: C	uing Calik lank (ug/l 2	ora L) C	ation 3	С	Prepa- ration Blank	С	M
Aluminum Antimony Arsenic Barium Beryllium		-  -  -  -	-1.1	- В -	-1.2	<u>В</u>	-1.2				<u>FM</u>
Cadmium Calcium Chromium Cobalt Copper				_ _ _		_ _ _				_ _ _ _	
Iron Lead Magnesium Manganese Mercury		_ _ _ _	0.8	<u>B</u>	0.8	<u>B</u>				- - -	<u>FM</u>
Nickel Potassium Selenium Silver						  -  -  -		_ _ _ _			
Sodium Thallium Vanadium Zinc Cyanide		  -  -  -  -				  -  -  -				_ _ _ _	

FORM III - IN

3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE893

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С	Conti 1		ling Calil Lank (ug/l 2		ation 3	С	Prepa- ration Blank	С	М
Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium											<u>FM</u>
Zinc Cyanide		-  -		  -		-  -				-   -	

FORM III - IN

ILM02.0

Envirolest B

000239

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

## VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID: VBLKC2

EnviroTest Lab No: VBLKC2

Client Name: Aneptek Project Name: Stewart

% Solid:

Matrix: Water

Sample Wt/Vol: 5ml

Date Collected:

Date Received:

Date Analyzed: 12/6/95 Report Date: 1/18/96

Level: Low

Column: DB-624

Lab File ID: V4469 Dilution Factor: 1

		Detection Limit	Conc.
CAS NO.	COMPOUND	ug/l	ug/l
<b>74-87-</b> 3	Chloromethane	10	U
74-83-9	Bromomethane	10	Ŭ
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	Ŭ
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	Ŭ
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene, Total	10	Ŭ
67-66-3	Chloroform	10	Ū
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	Ŭ
108-05-4	Vinyl acetate	10	ŭ
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	Ŭ
79-01-6	Trichloroethene	10	Ŭ
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ŭ
79-00-5	1,1,2-Trichloroethane	10	U
, 75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	. 10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127.10_/	Tetrachloroethene	10	ū
127-18-4 108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	ŭ
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	Ū
1330-20-7	Xylenes, Total	10	U
	<del>-</del>		

## VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID: VBLKC2

EnviroTest Lab No: VBLKC2

Client Name: Aneptek Project Name: Stewart

% Solid:

Matrix: Water

Sample Wt/Vol: 5ml

Date Collected:

Date Received:

Date Analyzed: 12/6/95 Report Date: 1/18/96

Level: Low

Column: DB-624

Lab File ID: V4469 Dilution Factor: 1

23

		Detection Limit	Conc.
CAS NO.	COMPOUND	ug/l	ug/!
<del></del>			••
106-03-4	1,2-Dibromoethane	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
74-95-3	Dibromomethane	10	Ū
110-57-6	trans-1,4-dichloro-2-butene	10	Ü
74-88-4	Iodomethane	10	Ü
630-20-6	1,1,1,2-Tetrachlorethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
<b>1</b> 75-69-4	Trichlorofluoromethane	10	Ŭ
107-13-1	Acrylonitrile	10	U
74-97-5	Bromochloromethane	10	U
<b>■541-73-1</b>	1,3-Dichlorobenzene	10	~ . <b>U</b>
95-50-1	1,2-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U

FORM I - VOA

### 1E

### VOLATILE TENTAT:

EPA	SAMPLE	NO.

	ED COMPOUNDS		
LAERI IDEMITE.	LED COMPONIE		VBLKC2
BS INC.	Contract:STEWART	ANG	

Lab Name: ENVIROTEST LAB

Case No.:#### SAS No.:####

SDG No.:AC817

Matrix:

(soil/water) WATER

Lab Sample ID: VBLKC2

Sample wt/vol:

Lab Code:10142

5.00 (g/ml) ML Lab File ID: V4469

Level:

(low/med) LOW

Date Received: / /

% Moisture: not dec.

Date Analyzed:12/06/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

Number TICs Found:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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## VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID: VBLKC3

EnviroTest Lab No: VBLKC3

Client Name: Aneptek Project Name: Stewart

% Solid:

Matrix: Water

Sample Wt/Vol: 5ml

Date Collected:

Date Received:

Date Analyzed: 12/7/95 Report Date: 1/18/96

Level: Low

Detection

Column: DB-624

Lab File ID: V4483 Dilution Factor: 1

		Limit	Conc.
Cas NO.	COMPOUND	ug/l	ug/l
<b>4-87-</b> 3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
<b>2</b> 75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
156-60-5	1,2-Dichloroethene, Total	10	U
<b>67-66-3</b>	Chloroform	10	· U
107-06-2	1,2-Dichloroethane	10	Ŭ
78-93-3	2-Butanone	10	U
70-55-6 271-55-6	1,1,1-Trichloroethane	10	υ
56-23-5	Carbon tetrachloride	10	Ū
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	10	σ
78-87-5	1,2-Dichloropropane	10	Ū
10061-01-5	cis-1,3-Dichloropropene	10	Ω .
79-01-6	Trichloroethene	10	U
~71-43-2	Benzene	10	Ŭ
124-48-1	Dibromochloromethane	10	U
10061-02-6	· · · · · · · · · · · · · · · · · · ·	10	U
79-00-5	1,1,2-Trichloroethane	10	Ŭ
75-25-2	Bromoform	10	ប 
108-10-1	4-Methyl-2-pentanone	10	Ŭ
591-78-6	2-Hexanone	10	U
<b>■</b> 79-34-5	1,1,2,2-Tetrachloroethane	10	Ŭ
127-18-4	Tetrachloroethene	10	Ŭ
1.08-88-3	Toluene	10	Ü
≟108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	Ŭ
100-42-5	Styrene	10	U
1330-20-7	Xylenes, Tótal	10	U

### VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID: VBLKC3

EnviroTest Lab No: VBLKC3

Client Name: Aneptek Project Name: Stewart

% Solid:

Matrix: Water

Sample Wt/Vol: 5ml

Date Collected:

Date Received:

Date Analyzed: 12/7/95 Report Date: 1/18/96

Level: Low

Column: DB-624

Lab File ID: V4483 Dilution Factor: 1

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l
106-03-4 96-12-8 74-95-3 110-57-6 74-88-4 630-20-6 96-18-4 75-69-4 107-13-1 74-97-5 541-73-1	1,2-Dibromoethane 1,2-Dibromo-3-Chloropropane Dibromomethane trans-1,4-dichloro-2-butene Iodomethane 1,1,1,2-Tetrachlorethane 1,2,3-Trichloropropane Trichlorofluoromethane Acrylonitrile Bromochloromethane 1,3-Dichlorobenzene	10 10 10 10 10 10 10 10	u u u u u u
95-50-1	1,2-Dichlorobenzene	10 10	n n
106-46-7	1,4-Dichlorobenzene	10	•

FORM I - VOA

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#### 1E

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED CO

	EPA	SAMPLE	NO

MPOUNDS	į	VBLKC3
act:STEWART	ANG	1,200

Lab Name: ENVIROTEST LABS INC.

Contr

o Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

Matrix:

(soil/water) WATER

Lab Sample ID: VBLKC3

Semple wt/vol:

(g/ml) ML 5.00

Lab File ID: V4483

(low/med) LOW

Date Received: / /

Moisture: not dec.

Date Analyzed:12/07/95

Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

mber TICs Found:

CONCENTRATION UNITS: (uq/L or ug/Kg) UG/L

CAS	NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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#### 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

Lab File ID (Standard): VS840

Date Analyzed:12/06/95

Instrument ID:MSD

Time Analyzed:1045

GC Column:DB-624

ID: 0.53 (mm)

Heated Purge: (Y/N) N

		IS1(FBZ) AREA #	RT #	IS <b>3(CSZ)</b> AREA #	RT #	AREA #	RT #
01 02 03 04 05 06 07 08 09 10	12 HOUR STD UPPER LIMIT LOWER LIMIT EPA SAMPLE NO. ======== TB-1129 MW09112995 MW10112995 MW01112995 MW05113095 MW05113095 MW08113095 MW06113095		RT # ====== 14.80 15.30 14.30 ====== 14.80 14.80 14.80 14.80 14.80 14.80 14.80 14.80		RT # ====== 21.21 21.71 20.71 ====== 21.23 21.23 21.23 21.23 21.23 21.23 21.23	AREA #	RT #
13 14 15 16 17 18 19 20 21 22							

IS1 (FB2) = Fluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

1.17.94

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside of QC limits with an asterisk.
\* Values outside of QC limits.

page 1 of 3

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

ab Name:ENVIROTEST LABS INC.

Contract:STEWART ANG

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AC817

ab File ID (Standard):VS843

Date Analyzed:12/07/95

Instrument ID:MSD

Time Analyzed:1424

Column:DB-624

ID: 0.53 (mm)

Heated Purge: (Y/N) N

_	IS1(FBZ) AREA #	RT #	IS <b>3(LB2)</b> AREA #	RT #	AREA #	RT #
12 HOUR STD UPPER LIMIT LOWER LIMIT	228062 456124 114031	14.80 15.30 14.30	202699 405398 101350	21.21 21.71 20.71		
EPA SAMPLE NO.						======
1 VBLKC3	218379 216604	14.80 14.79	195792 193167	$\frac{21.21}{21.22}$		_
2 MW07 3 TB-113095	226276 215925	$\frac{\frac{14.79}{14.80}}{14.80}$	201706 191015	$\frac{\frac{21.22}{21.23}}{21.21}$		<del></del>
4   VBSPK 5   MW07MS 6   MW07MSD	$\frac{213925}{221744}$ $216349$	$\frac{\frac{14.80}{14.80}}{14.80}$	196129 192842	$\frac{21.21}{21.21}$		_
6 MW07MSD 7 8	210343					
9						
1						
3 4						
5						
8						
9						
2						

IS1 (FBZ) = Fluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside of QC limits with an asterisk.

\* Values outside of QC limits.

page 2 of

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315 Fullerton Avenue Newburgh, NY 12550

### SAMPLE DATA SUMMARY PACKAGE

Aneptek Natick, MA

Project: STEWART ANG SITE 1 ETL Lab. #: 155919 Matrix: Water

1 of 1

# SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
155919-07 155919-08 155919-09 155919-10 155919-11	Water Water Water Water Water	12/1/95 12/1/95 12/1/95 12/1/95 12/1/95 11/30/95	12/1/95 12/1/95 12/1/95 12/1/95 12/1/95 12/1/95	  	12/8/95 12/8/95 12/8/95 12/8/95 12/8/95 12/8/95
155919-12 155919-13	Water Water	11/30/95	12/1/95		12/8/95

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Envirolest Balaboratories Inc.

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## SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
155919-01	Water	NO3-NO2 Cn TKN TOC, Phenol COD Hg As, Pb Se, Tl Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, Total Hardness, Zn, V NH3	12/1/95	12/11/95 12/22/95 12/12/95 12/13/95 12/15/95 12/29/95 1/2/95 1/4/95 1/5/95
155919-02	Water	BOD, CR+6 Br, Color Alk TDS Cl SO4	12/1/95	12/1/95 12/4/95 12/5/95 12/6/95 12/15/95 12/28/95
155919-03	Water	NO3-NO2 Cn TKN TOC, Phenol COD, Cl Hg As, Pb Se, Tl Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na Total Hardness, Zn, V NH3 BOD, Cr+6 SO4 TDS ALK Br, Color	12/1/95	12/11/95 12/22/95 12/12/95 12/13/95 12/15/95 12/29/95 1/2/95 1/4/95 1/5/95 1/7/95 12/1/95 12/1/95 12/6/95 12/6/95 12/5/95 12/4/95

**C33604** 

EPA NY049

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# SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES page 2

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
155919-04	Water	NO3-NO2 Cn TKN TOC, Phenol COD, Cl Hg As, Pb Se, Tl Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na Total Hardness, Zn, V NH3	12/1/95	12/11/95 12/22/95 12/12/95 12/13/95 12/15/95 12/29/95 1/2/95 1/4/95 1/5/95
		BOD, Cr+6 SO4 TDS ALK Br, Color		12/1/95 12/28/95 12/6/95 12/5/95 12/4/95
155919-05	Water	NO3-NO2 Cn TKN TOC, Phenol COD, Cl Hg As, Pb Se, Tl Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na	12/1/95	12/11/95 12/22/95 12/12/95 12/13/95 12/15/95 12/29/95 1/2/95 1/4/95 1/5/95
, , , , , , , , , , , , , , , , , , ,		Total Hardness, Zn, V NH3 BOD, Cr+6 SO4 TDS ALK Br, Color		1/7/95 12/1/95 12/28/95 12/6/95 12/5/95 12/4/95

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EPA NYO49

Envirolest Laboratories Inc.

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# SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES page 3

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
155919-06	Water	NO3-NO2 Cn TKN TOC, Phenol COD, Cl Hg As, Pb Se, Tl Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na Total Hardness, Zn, V NH3 BOD, Cr+6 SO4 TDS ALK Br, Color	12/1/95	12/11/95 12/22/95 12/12/95 12/13/95 12/15/95 12/29/95 1/2/95 1/4/95 1/5/95 1/5/95 12/1/95 12/1/95 12/28/95 12/6/95 12/5/95 12/4/95
155919-07	Water	NO3-NO2 Cn TKN TOC, Phenol COD, Cl Hg As, Pb Se, Tl Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na Total Hardness, Zn, V NH3 BOD, Cr+6 SO4 TDS ALK Br, Color	12/1/95	12/11/95 12/22/95 12/12/95 12/13/95 12/15/95 12/29/95 1/2/95 1/4/95 1/5/95 12/1/95 12/1/95 12/28/95 12/6/95 12/5/95 12/4/95

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EPA NYO49

Envirolest Laboratories Inc.

## CASE NARRATIVE

<u>Client:</u> Aneptek Corp. <u>Date:</u> 1/19/96 <u>ETL Lab</u> No. 155919

### **Volatiles**

### Calibration

Due to poor purging efficiency the calibration levels of acrylonitrile, iodomethane, carbon disulfide, vinyl acetate and t-1,4-dichloro-2-butene are 10, 20, 50, 100 and 200 ug/l.

### Wet Chemistry

### **Phenols**

Due to insufficient sample volume, the following samples were distilled for total phenol using 200ml instead of 500ml.

SW-03-120195D (155919-04D) SW-03-120195S (155919-04S)

### Sulfate

The following sample was diluted for sulfate at the indicated amount due to concentrations that exceed the calibration range:

MW-04-120195DL (155919-03DL): 4x

### **Inorganics**

### Matrix Spike

The predigestion spike recovery for the following sample is outside the acceptable limits:

SW-03-120195S (155919-04S): zinc

The data is qualified accordingly.

## Post Digestion Spike

A post digestion spike was performed for sample number SW-03-120195P (155919-04P) due to zinc recovery outside the acceptable limit in the predigestion spike.

Envirolest Laboratories Inc.

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SPA NY049

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### CASE NARRATIVE Client: Aneptek Corp. Date: 1/19/96 ETL Lab No. 155919

Page-2

## Matrix Duplicate

The duplicate analysis for the following sample contains the indicated parameter that falls outside the acceptable limits:

SW-03-120195D (155919-04D): zinc

The data is qualified accordingly.

EnviroTest Laboratories Inc.

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EPA NYO40

# $\begin{array}{c} \text{Volatile Organics Analysis Data Sheet} \\ \text{Form I VOA} \end{array}$

Client ID: SW-02-120195

Date Collected: 01-DEC-95

ETL Sample Number: 155919-07

Date Received: 01-DEC-95

Client Name: ANEPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 08-DEC-95

★ Solid: NA

Report Date: 19-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4495

Level: LOW

Dilution Factor: 1.00

		Detection Limit	Conc.	Data
CAS NO. Compound	i	ug/l	ug/l	Qualifier
74-87-3 Chlorome		10		ប្
74-83-9 Bromomet		10 10		V V
75-01-4 Vinyl ct 75-00-3 Chloroet		10		Ü
	ne chloride	10		ŭ
75-09-2 Methyler 67-64-1 Acetone	ie citoriae	10		ŭ
	disulfide	10		ŭ
	hloroethene	10		Ŭ
	hloroethane	10		Ŭ
	hloroethene(total)	10		U
67-66-3 Chlorofo		10		้ ป
	hloroethane	10		ប
78-93-3 2-Butano		10	•	ប
71-55-6 1.1.1-70	richloroethane	10	• • .	Ü
	tetrachloride	10	••	មួ
	cetate .	10		Ų į
	chloromethane	10		U U
78-87-5 1.2-Did	hloropropane	10 10		Ü
10061-01-5 cis-1.3	-Dichloropropene	10 10		υ 
	roethene	10		ű
71-43-2 Benzene		10		11
124-48-1 Dibrono	chloromethane ,3-Dichloropropene	10	•	ŭ
10061-02-6 trans-1	richloroethane	10		
	(TCHO) vechale	10		ប័
75-25-2 Bromofo 108-10-1 4-Methy	તામા યા-2-pentanone	10		บั
591-78-6 2-Hexan		10		Ŭ
79-34-5	!-Tetrachloroethane	10 10		บั
127-18-4 Tetrach	lloroethene	10	•	U
108-88-3 Toluene		10		ប
// 108-90-7 Chlorob		10		U
100-41-4 Ethylbe	enzene ·	10	<b>₹</b> \$	U
100-42-5 Styrene	•	10	;	ប្
1330-20-7 Xylenes	s. Total	10		U ''
	chlorobenzene	10		U U
	chlorobenzene	10		U []
	hlorobenzene	10		Ü
630-20-6 1.1.1.2	2-Tetrachloroethane	10		U U
96-18-4 1,2,3	Frichloropropane profluoromethane	10 10		Ü
	profluoromethane		da feria di di	41
	nitrile: Noromethane	10 10	J. War affirm of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	: : : . <b>U</b> !!
74-97-5 Bromocl	погошеснате	10		-

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### Volatile Organics Analysis Data Sheet Form I VOA

Results are continued from the previous page for 155919-07

CAS NO.	Compound	ug/l	ug/l	Qualifier
106-03-4	1,2-Dibromoethane	10		U
96-12-8	1,2-Dibromo-3-Chloropropane	10		บ
74-95-3	Dibromomethane	10		· - U
110-57-6	trans-1,4-dichloro-2-butene	10		ប
74-88-4	Iodomethane	10		U

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EPA SAMPLE NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

SW02120195

Lab Code: 10142

Case No.:#### SAS No.:#####

SDG No.:AC919

Matrix: (soil/water) WATER

Lab Sample ID:155919-07

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: V4495

Level:

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(low/med) LOW

Date Received:12/01/95

% Moisture: not dec.

Date Analyzed:12/08/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Number TICs Found:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Client ID: MW-04-120195

Date Collected: 01-DEC-95

EIL Sample Number: 155919-08

Date Received: 01-DEC-95

Client Name: ANEPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 08-DEC-95

- - \* Solid: NA

Report Date: 19-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4496

Level: LOW

Dilution Factor: 1.00

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/l	ug/l	Qualifier
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		ป
75-01-4	Vinyl chloride	10		U
75-00-3	Chloroethane	10	•	U
75-09-2	Methylene chloride	10		U
67-64-1	Acetone	10	1	J
75-15-0	Carbon disulfide	10	•	ប
75-35-4	1.1-Dichloroethene	10		U
75-34-3	1.1-Dichloroethane	10		U
540-59-0	1.2-Dichloroethene(total)	10		U
67-66-3	Chloroform	10		ັ ປ
107-06-2	1.2-Dichloroethane	10		U
78-93-3	2-Butanone	10	•	U
71-55-6	1.1.1-Trichloroethane	10	• .	Ū
56-23-5	Carbon tetrachloride	10		ប
108-05-4	Vinyl acetate.	10		V
75-27-4	Bromodichloromethane	10		บ
78-87-5	1.2-Dichloropropane	10		บ
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
71-43-2	Benzene	10	• -	ย
124-48-1	Dibromochloromethane	10	•	Ü
10061-02-6	trans-1,3-Dichloropropene	10		U
79-00-5	1.1.2-trichloroethane	10		บ้
75-25-2	Bromoform	10		Ū
108-10-1	4-Hethyl-2-pentanone	10		Ü
591-78-6	2-Hexanone	10		บั
79-34-5	1,1,2,2-Tetrachloroethane	10		Ŭ
79-34-5 127-18-4	Tetrachloroethene	10		ยั
108-88-3	Toluene	10		Ū
108-90-7	Chlorobenzene	10		บ
108-90-7	Ethylbenzene	10	ζζ.	Ü
	Styrene	10	-	Ü
100-42-5	Xylenes. Total	10		Ū
1330-20-7	1,2-Dichlorobenzene	10		Ü
95-50-1	1.3-Dichlorobenzene	10		Ū
541-73-1	1.4-Dichlorobenzene	10 .		ប័
106-46-7	Trichlorofluoromethane	10		ŭ
75-69-4	April oritails	10		Ŭ
107-13-1	Acrylonitrile	10		ŭ
74-97-5	Bromoch i oromethane	10		ŭ
106-03-4	1.2 Dibromoethane	10		Ŭ
96-12-8	1.2-Dibromo-3-Chloropropane	10		U



Results are continued from the previous page for  $155919 \cdot 08$ 

CAS NO.	Compound	ug/l	ug/l	Qualifier
74-95-3	Dibromomethane	10		Ų
110-57-6	trans-1.4-dichloro-2-butene	10 10		· . ()
74-88-4 630-20-6	Iodomethane 1,1,1,2-Tetrachloroethane	10		บ
96-18-6	1.2.3-Trichloropropane	10		ช

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EPA SAMPLE NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW04120195

.ab Name: ENVIROTEST LABS INC. Contract: STEWART ANG

Matrix: (soil/water) WATER

Lab Sample ID:155919-08

Simple wt/vol: 5.00 (g/ml) ML Lab File ID: V4496

Level: (low/med) LOW

Date Received:12/01/95

Moisture: not dec.

Date Analyzed:12/08/95

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: 0 (uL)

il Extract Volume:0 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L mber TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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4.00

Client ID: SW-03-120195 (MS/MSD)

Date Collected: 01-DEC-95

ETL Sample Number: 155919-09

Date Received: 01-DEC-95

Client Name: ANEPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 08-DEC-95

✗ Solid: NA

Report Date: 19-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4497

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Dilution Factor: 1.00

		Detection	Conc.	Data
CAS NO.	Compound	Limit ug/l	ug/l	Qualifier
74-87-3	Chloromethane	10 `		U
74-83-9	Bromomethane	10		บ
75-01-4	Vinyl chloride	10		U
75-00-3	Chloroethane	10		Ü
75-09-2	Methylene chloride	10		ប
67-64-1	Acetone	10		ឋ
75-15-0	Carbon disulfide	10		U
75-35-4	1.1-Dichloroethene	10		ប
75 <b>-3</b> 4-3	1,1-Dichloroethane	10		U
540-59-		10		U
67-66-3	Chloroform	10		ຸ ປ
107-06-	=	10		ប
78-93-3	2-Butanone	10		ឋ
70-93-3 71- <b>5</b> 5-6	1.1.1-Trichloroethane	10		Ū
56-23-9	Carbon tetrachloride	10	• .	ช
108-05-		10		ប
75-27 <i>-4</i>		10		ំ ប
78-87-5		10		บ
10061-0		10		U
79-01-6		10		Ú
71-43-2		10		U
124-48		10		ี่ป
10061-0		10		Ů
79-00-9		10		Ü
75-25-2		10		บั
108-10		10		บั
591-78		10		Ü
79-34-9		10		Ŭ
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Results are continued from the previous page for 155919-09

Co	mpound	ug/l	ug/l	-Qualifier
6 1. 1. Tr	1.1.2-Tetrachloroethane 2.3-Trichloropropane richlorofluoromethane	10 10 10 10 10		บ บ บ บ บ
•	Io 6 1. 1. Tr	6 1.1.1.2-Tetrachloroethane 1.2.3-Trichloropropane Trichlorofluoromethane	Iodomethane 10 6 1.1.1.2-Tetrachloroethane 10 1.2.3-Trichloropropane 10 Trichlorofluoromethane 10	Iodomethane 10 6 1.1.1.2-Tetrachloroethane 10 1.2.3-Trichloropropane 10 Trichlorofluoromethane 10

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#### 1E

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.

SW03	

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

SDG No.:AC919

Matrix: (soil/water) WATER

Lab Sample ID:155919-09

Sample wt/vol: 5.00 (g/ml) ML

Lab File ID: V4497

(low/med) LOW Level:

Date Received: 12/01/95

% Moisture: not dec.

Date Analyzed:12/08/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs Found:	0	(ug/L or ug/Kg)	UG/L	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q -
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Client ID: SW-11-120195

Date Collected: 01-DEC-95

ETL Sample Number: 155919-10

Date Received: 01-DEC-95

THE DESCRIPTION OF THE STREET

Client Name: ANEPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 08-DEC-95

% Solid: NA

Report Date: 19-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4498

Level: LOW

Dilution Factor: 1.00

CAS NO.   Compound   Ug/1	on Conc.	Data
T4-83-9   Bromomethane   10   T5-01-4   Vinyl chloride   10   T5-00-3   Chloroethane   10   T5-00-3   Chloroethane   10   T5-09-2   Methylene chloride   10   T5-15-0   Carbon disulfide   10   T5-15-0   Carbon disulfide   10   T5-35-4   1.1-Dichloroethene   10   T5-34-3   1.1-Dichloroethane   10   T5-34-3   1.1-Dichloroethane   10   T5-34-3   1.1-Dichloroethane   10   T5-34-3   1.1-Dichloroethane   10   T5-35-6   1.2-Dichloroethane   10   T5-33-3   2.8 utanone   10   T5-35-6   1.1.1-Trichloroethane   10   T5-35-6   1.1.1-Trichloroethane   10   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35-6   T5-35	ug/1 .	Qualifier
T4-83-9   Bromomethane   10   T5-01-4   Vinyl chloride   10   T5-01-4   Vinyl chloride   10   T5-00-3   Chloroethane   10   10   T5-09-2   Kethylene chloride   10   T5-09-2   Kethylene chloride   10   T5-09-2   Tethylene chloride   10   T5-15-0   Carbon disulfide   10   T5-35-4   1,1-0ichloroethene   10   T5-35-4   1,1-0ichloroethane   10   T5-34-3   1,1-0ichloroethane   10   T5-34-3   1,1-0ichloroethane   10   T6-63   Chloroform   10   T0-06-2   1,2-0ichloroethane   10   T7-55-6   1,1.1-Trichloroethane   10   T7-55-6   1,1.1-Trichloroethane   10   T6-23-5   Carbon tetrachloride   10   T6-23-5   Carbon tetrachloride   10   T6-23-5   Carbon tetrachloride   10   T6-23-5   T1-35-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16   T1-30-16		Ů
75-01-4 Vinyl chloride 75-00-3 Chloroethane 75-00-2 Hethylene chloride 10 75-05-2 Hethylene chloride 10 75-15-0 Carbon disulfide 10 75-35-4 1,1-Dichloroethene 10 75-34-3 1,1-Dichloroethene 10 540-59-0 1,2-Dichloroethene(total) 10 67-66-3 Chloroform 10 107-06-2 1,2-Dichloroethane 10 78-93-3 2-Butanone 10 71-55-6 1,1,1-Trichloroethane 10 75-27-4 Bromodichloromethane 10 75-27-4 Bromodichloromethane 10 78-87-5 1,2-Dichloropopane 10 10061-01-5 cis-1,3-Dichloropropane 10 71-43-2 Benzene 10 71-43-2 Benzene 10 10061-02-6 trans-1,3-Dichloropropene 10 79-00-5 1,1,2-trichloroethane 10 79-34-5 1,1-trichloroethane 10 108-10-1 4-Hethyl-2-pentanone 10 108-10-1 4-Hethyl-2-pentanone 10 108-88-3 Toluene 100 108-80-7 Chlorobenzene 10 100-41-4 Ethylbenzene 10 103-30-40 1130-20-6 1,2-Dichloropthane 10 100-41-4 Ethylbenzene 10 100-41-5 Styrene 10 100-42-5 Styrene 10 100-42-6 1,2-Dichlorobenzene 10 100-41-73-1 1,3-Dichlorobenzene 10 100-41-73-1 1,2-Dichlorobenzene 10 100-42-5 Styrene 10 100-42-5 Styrene 10 100-43-4 1,2-Dichlorobenzene 10 100-40-5 1,2-Dichlorobenzene 10 100-41-73-1 1,3-Dichlorobenzene 10 100-42-8 1,2-Dichlorobenzene 10 100-42-8 1,2-Dichlorobenzene 10 100-40-40-4 1,2-Dichlorobenzene 10 100-40-40-4 1,2-Dichlorobenzene 10 100-40-5 1,2-Dichlorobenzene 10 100-40-5 Styrene 10 100-41-73-1 1,3-Dichlorobenzene 10 100-41-73-1 1,3-Dichlorobenzene 10 100-41-73-1 1,3-Dichlorobenzene 10 100-41-73-1 1,3-Dichlorobenzene 10 100-42-8 1,2-Dichlorobenzene 10 100-40-95-3 Dibromomethane 10 100-10-95-95-95-95-95-95-95-95-95-95-95-95-95-		· U
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78-87-5         1,2-Dichloropropane         10           10061-01-5         cis-1,3-Dichloropropene         10           79-01-6         Trichloroethene         10           71-43-2         Benzene         10           124-48-1         Dibromochloromethane         10           10061-02-6         trans-1,3-Dichloropropene         10           79-00-5         1,1,2-trichloroethane         10           79-00-5         1,1,2-trichloroethane         10           108-10-1         4-Methyl-2-pentanone         10           108-10-1         4-Methyl-2-pentanone         10           108-10-1         4-Methyl-2-pentanone         10           108-10-1         4-Methyl-2-pentanone         10           108-10-1         4-Methyl-2-pentanone         10           108-10-1         4-Methyl-2-pentanone         10           108-10-1         4-Methyl-2-pentanone         10           108-10-1         4-Methyl-2-pentanone         10           108-88-3         Toluchene         10           108-88-3         Toluchene         10           109-90-7         Chlorobenzene         10           100-41-4         Ethylbenzene         10           100-42-5 </td <td></td> <td>_</td>		_
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71-43-2 Benzene 10 124-48-1 Dibromochloromethane 10 10061-02-6 trans-1.3-Dichloropropene 10 79-00-5 1.1.2-trichloroethane 10 75-25-2 Bromoform 10 108-10-1 4-Hethyl-2-pentanone 10 591-78-6 2-Hexanone 10 79-34-5 1.1.2.2-Tetrachloroethane 10 127-18-4 Tetrachloroethane 10 108-88-3 Toluene 10 108-90-7 Chlorobenzene 10 100-41-4 Ethylbenzene 10 100-42-5 Styrene 10 1330-20-7 Kylenes, Total 10 95-50-1 1.2-Dichlorobenzene 10 541-73-1 1.3-Dichlorobenzene 10 106-46-7 1.4-Dichlorobenzene 10 106-03-4 1.2-Dibromo-3-Chloropropane 10 106-03-4 1.2-Dibromo-3-Chloropropane 10 74-95-3 Dibromo-3-Chloropropane 10 74-95-3 Dibromo-3-Chloropropane 10 110-57*6 trans-1.4-Dichloro-2-butene 10		ប
124-48-1         Dibromochloromethane         10           10061-02-6         trans-1,3-Dichloropropene         10           79-00-5         1,1,2-trichloroethane         10           75-25-2         Bromoform         10           108-10-1         4-Kethyl-2-pentanone         10           591-78-6         2-Hexanone         10           79-34-5         1,1,2,2-Tetrachloroethane         10           127-18-4         Tetrachloroethene         10           108-88-3         Toluene         10           108-90-7         Chlorobenzene         10           100-41-4         Ethylbenzene         10           100-42-5         Styrene         10           1330-20-7         Xylenes, Total         10           95-50-1         1,2-Dichlorobenzene         10           541-73-1         1,3-Dichlorobenzene         10           106-46-7         1,4-Dichlorobenzene         10           106-03-4         1,2-Dichlorobenzene         10           106-03-4         1,2-Dichlorobenzene         10           106-03-8         1,2-Dichlorobenzene         10           1074-95-3         Dibromomethane         10           100-03-5         100-03-03		Ų
10061-02-6       trans-1.3-Dichloropropene       10         79-00-5       1.1.2-trichloroethane       10         75-25-2       Bromoform       10         108-10-1       4-Hethyl-2-pentanone       10         591-78-6       2-Hexanone       10         79-34-5       1.1.2.2-Tetrachloroethane       10         127-18-4       Tetrachloroethene       10         108-88-3       Toluene       10         108-90-7       Chlorobenzene       10         100-41-4       Ethylbenzene       10         100-42-5       Styrene       10         1330-20-7       Xylenes, Total       10         95-50-1       1.2-Dichlorobenzene       10         541-73-1       1,3-Dichlorobenzene       10         106-46-7       1,4-Dichlorobenzene       10         106-03-4       1,2-Dibromoethane       10         96-12-8       1,2-Dibromoethane       10         74-95-3       Oibromomethane       10         110-57-6       trans-1,4-dichloro-2-butene       10	••	ឬ
79-00-5	•	บ
75-25-2 Bromoform 10 108-10-1 4-Hethyl-2-pentanone 10 591-78-6 2-Hexanone 10 79-34-5 1.1,2,2-Tetrachloroethane 10 127-18-4 Tetrachloroethene 10 108-88-3 Toluene 10 108-90-7 Chlorobenzene 10 100-41-4 Ethylbenzene 10 100-42-5 Styrene 10 1330-20-7 Xylenes, Total 10 95-50-1 1,2-Dichlorobenzene 10 541-73-1 1,3-Dichlorobenzene 10 106-46-7 1,4-Dichlorobenzene 10 106-03-4 1,2-Dibromoethane 10 96-12-8 1,2-Dibromoethane 10 74-95-3 Dibromoethane 10 110-57-6 trans-1,4-Dichloro-2-butene 10		U
75-25-2 Bromoform 10 108-10-1 4-Hethyl-2-pentanone 10 591-78-6 2-Hexanone 10 79-34-5 1,1,2,2-Tetrachloroethane 10 127-18-4 Tetrachloroethene 10 108-88-3 Toluene 10 108-90-7 Chlorobenzene 10 100-41-4 Ethylbenzene 10 100-42-5 Styrene 10 1330-20-7 Xylenes, Total 10 1330-20-7 Xylenes, Total 10 551-73-1 1,3-Dichlorobenzene 10 561-73-1 1,3-Dichlorobenzene 10 106-46-7 1,4-Dichlorobenzene 10 106-03-4 1,2-Dibromoethane 10 96-12-8 1,2-Dibromoethane 10 74-95-3 Dibromomethane 10 110-57-6 trans-1,4-dichloro-2-butene 10		ប
108-10-1       4-Hethyl-2-pentanone       10         591-78-6       2-Hexanone       10         79-34-5       1.1.2.2-Tetrachloroethane       10         127-18-4       Tetrachloroethene       10         108-88-3       Toluene       10         108-90-7       Chlorobenzene       10         100-41-4       Ethylbenzene       10         100-42-5       Styrene       10         1330-20-7       Xylenes, Total       10         95-50-1       1.2-Dichlorobenzene       10         541-73-1       1.3-Dichlorobenzene       10         106-46-7       1.4-Dichlorobenzene       10         106-03-4       1.2-Dibromo-3-Chloropropane       10         96-12-8       1.2-Dibromo-3-Chloropropane       10         74-95-3       Oibromomethane       10         110-57-6       trans-1.4-dichloro-2-butene       10		U
591-78-6       2-Hexanone       10         79-34-5       1.1.2.2-Tetrachloroethane       10         127-18-4       Tetrachloroethene       10         108-88-3       Toluene       10         108-90-7       Chlorobenzene       10         100-41-4       Ethylbenzene       10         100-42-5       Styrene       10         1330-20-7       Xylenes, Total       10         95-50-1       1.2-Dichlorobenzene       10         541-73-1       1.3-Dichlorobenzene       10         106-46-7       1.4-Dichlorobenzene       10         106-03-4       1.2-Dibromo-3-Chloropropane       10         96-12-8       1.2-Dibromo-3-Chloropropane       10         74-95-3       Dibromomethane       10         110-57-6       trans-1.4-dichloro-2-butene       10		U
79-34-5 1.1.2.2-Tetrachloroethane 10 127-18-4 Tetrachloroethene 10 108-88-3 Toluene 10 108-90-7 Chlorobenzene 10 100-41-4 Ethylbenzene 10 100-42-5 Styrene 10 1330-20-7 Kylenes. Total 10 95-50-1 1.2-Dichlorobenzene 10 541-73-1 1.3-Dichlorobenzene 10 106-46-7 1.4-Dichlorobenzene 10 106-03-4 1.2-Dibromo-3-Chloropropane 10 96-12-8 1.2-Dibromo-3-Chloropropane 10 74-95-3 Dibromomethane 10 110-57-6 trans-1.4-Dichloro-2-butene 10		ប
127-18-4       Tetrachloroethene       10         108-88-3       Toluene       10         108-90-7       Chlorobenzene       10         100-41-4       Ethylbenzene       10         100-42-5       Styrene       10         1330-20-7       Xylenes, Total       10         95-50-1       1,2-Dichlorobenzene       10         541-73-1       1,3-Dichlorobenzene       10         106-46-7       1,3-Dichlorobenzene       10         106-03-4       1,2-Dibromoethane       10         96-12-8       1,2-Dibromoethane       10         74-95-3       Dibromoethane       10         110-57*6       trans-1,4-dichloro-2-butene       10		บ
108-88-3       Toluene       10         108-90-7       Chlorobenzene       10         100-41-4       Ethylbenzene       10         100-42-5       Styrene       10         1330-20-7       Xylenes, Total       10         95-50-1       1,2-Dichlorobenzene       10         541-73-1       1,3-Dichlorobenzene       10         106-46-7       1,4-Dichlorobenzene       10         106-03-4       1,2-Dibromoethane       10         96-12-8       1,2-Dibromoethane       10         74-95-3       Dibromomethane       10         110-57-6       trans-1,4-dichloro-2-butene       10		U
108-99-7       Chlorobenzene       10         100-41-4       Ethylbenzene       10         100-42-5       Styrene       10         1330-20-7       Xylenes, Total       10         95-50-1       1,2-Dichlorobenzene       10         541-73-1       1,3-Dichlorobenzene       10         106-46-7       1,4-Dichlorobenzene       10         106-03-4       1,2-Dibromoethane       10         96-12-8       1,2-Dibromoethane       10         74-95-3       Dibromomethane       10         110-57-6       trans-1,4-dichloro-2-butene       10		ប
100-41-4       Ethylbenzene       10         100-42-5       Styrene       10         1330-20-7       Xylenes, Total       10         95-50-1       1,2-Dichlorobenzene       10         541-73-1       1,3-Dichlorobenzene       10         106-46-7       1,4-Dichlorobenzene       10         106-03-4       1,2-Dibromoethane       10         96-12-8       1,2-Dibromoethane       10         74-95-3       Dibromomethane       10         110-57-6       trans-1,4-dichloro-2-butene       10		ប
100-42-5     Styrene     10       1330-20-7     Xylenes, Total     10       95-50-1     1,2-Dichlorobenzene     10       541-73-1     1,3-Dichlorobenzene     10       106-46-7     1,4-Dichlorobenzene     10       106-03-4     1,2-Dibromoethane     10       96-12-8     1,2-Dibromoethane     10       74-95-3     Dibromomethane     10       110-57-6     trans-1,4-dichloro-2-butene     10	. \$ \$	U
1330-20-7	• •	ប
95-50-1 1.2-Dichlorobenzene 10 541-73-1 1.3-Dichlorobenzene 10 106-46-7 1.4-Dichlorobenzene 10 106-03-4 1.2-Dibromoethane 10 96-12-8 1.2-Dibromoethane 10 74-95-3 Dibromomethane 10 110-57-6 trans-1.4-dichloro-2-butene 10		U
541-73-1       1.3-Dichlorobenzene       10         106-46-7       1.4-Dichlorobenzene       10         106-03-4       1.2-Dibromoethane       10         96-12-8       1.2-Dibromoethane       10         74-95-3       Dibromomethane       10         110-57*6       trans-1.4-dichloro-2-butene       10		U
106-46-7 1.4-Dichlorobenzene 10 106-03-4 1.2-Dibromoethane 10 96-12-8 1.2-Dibromoethane 10 74-95-3 Dibromomethane 10 110-57-6 trans-1.4-dichloro-2-butene 10		Ü
106-03-4 1.2-Dibromoethane 10 96-12-8 1.2-Dibromo:3-Chloropropane 10 74-95-3 Dibromomethane 10 110-57-6 trans-12-4-dichloro-2-butene 10		Ü
96-12-8 1.2-0ibromo:3-Chloropropane 10 74-95-3 Dibromomethane 10 110-57-6 trans-1.4-dichloro-2-butene 10		Ŭ
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110-57-6 trans-1.4-dichloro-2-butene 10		Ŭ
110-24% Etsü281748Giculoto.sx.pacete	5 4 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Tadamakhana 10		Ü
74-88-4 Iodomethane 10	54	U
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Results are continued from the previous page for 155919-10

CAS N	). Сопроит	1	ug/l	ug/l	Qualifier
630-2	0-6 1.1.1.2	Tetrachloroethane	10		ប
96-18		richloropropane	10		<b>U</b>
75-69		rofluoromethane	10		U
107-1		itrile	<b>10</b> ·		ប
74-97		loromethane	10		U

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315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0690 FAX (914) 562-0641



#### 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW11120195

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

SDG No.:AC919

Matrix: (soil/water) WATER

Lab Sample ID:155919-10

Sample wt/vol: 5.00 (g/ml) ML

Lab File ID: V4498

Date Received:12/01/95

Level: (low/med) LOW

Date Analyzed:12/08/95

Moisture: not dec.

ID: 0.53 (mm)

Dilution Factor: 1.0

GG Column:DB-624

(uL)

Soil Aliquot Volume:0

(uL)

ber TICs Found:

Sal Extract Volume:0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.	CONC.	Q
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Client ID: SW-01-120195

Date Collected: 01-DEC-95

ETL Sample Number: 155919-11

Date Received: 01-DEC-95

Client Name: ANEPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 08-DEC-95

% Solid: NA

Report Date: 19-JAN-96

Matrix: 2 GW/WW

Column: D8-624

Sample Wt/Vol: 5ml

Lab File Id: V4499

Dilution Factor: 1.00

Level: LOW

			Detection	Conc.	Data
	CAS NO.	Compound	Limit ug/l	ug/l	Qualifier
	74-87-3	Chloromethane	10		U
	74-83-9	Bromomethane	10		()
	75-01-4	Vinyl chloride	10		U
	75-00-3	Chloroethane	10		U
	75-09-2	Methylene chloride	10		U
	67-64-1	Acetone	10		U
	75-15-0	Carbon disulfide	10		U
	75-35-4	1.1-Dichloroethene	10		U
	75-34-3	1.1-Dichloroethane	10		Ŭ {
	540-59-0	1.2-Dichloroethene(total)	10		U
	67-66-3	Chloroform	10		~ U
	107-06-2	1.2-Dichloroethane	10		U
	78-93-3	2-Butanone	10	<i>,</i> •	U 1
	71-55-6	1.1.1-Trichloroethane	10		U
	56-23-5	Carbon tetrachloride	10	•	U .
	108-05-4	Vinyl acetate.	10		U
	75-27-4	Bromodichloromethane	10		U
	78-87-5	1,2-Dichloropropane	10		U
	10061-01-5	cis-1,3-Dichloropropene	10		ប
	79-01-6	Trichloroethene	10		U
	71-43-2	Benzene	10	_	U
	124-48-1	Dibromochloromethane	10	• •	U
	10061-02-6	trans-1.3-Dichloropropene	10		U į
	79-00-5	1.1.2-trichloroethane	10		U
	75-25-2	Bromoform	10		U
	108-10-1	4-Hethyl-2-pentanone	10		U
	591-78-6	2-Hexanone	10		U .
	79-34-5	1.1.2.2-Tetrachloroethane	10		U
•	127-18-4	Tetrachloroethene	10		U )
	108-88-3	Toluene	10		U
,	108-90-7	Chlorobenzene	10		U
	100-41-4	Ethylbenzene	10	χ\$ζ	U
	100-42-5	Styrene	10	• •	ŭ
	1330-20-7	Xylenes. Total	10		U
	95-50-1	1,2-Dichlorobenzene	10		<u>u</u>
	541-73-1	1.3-Dichlorobenzene	10		U I
4.5	106-46-7	1.4-Dichlorobenzene	10		N. I
	96-12-8	1.2-Dibromo-3-Chloropropane	10		y l
•••	74-95-8	Dibromomethane	10		ប្ល
• •	110-57-6	trans-1.4-dichloro-2-butene	10		y
	74-88-4	Todomethane:	10	• •	y, a U, a l
;	630-20-6	1,1,1,2-Tetrachloroethane	10		U .
-	000 20 0				l.

Results are continued from the previous page for 155919-11

CAS NO.	Compound	ug/l	ug/l	Qualifier
96-18-4 75-69-4 107-13-1 74-97-5 106-03-4	1.2.3-Trichloropropane Trichlorofluoromethane Acrylonitrile Bromochloromethane 1.2-Dibromoethane	10 10 10 10 10		บ บ บ บ

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\$15 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SW01120195

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Lab Code:10142

Case No.:##### SAS No.:#####

5.00 (g/ml) ML

SDG No.:AC919

Matrix: (soil/water) WATER

Lab Sample ID:155919-11

Sample wt/vol:

Lab File ID: V4499

Level:

Date Received: 12/01/95

% Moisture: not dec.

(low/med) LOW

Date Analyzed:12/08/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0

Number TICs Found:

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Client ID: MW-12-113095

Date Collected: 30-NOV-95

ETL Sample Number: 155919-12

Date Received: 01-DEC-95

Client Name: ANEPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 08-DEC-95

% Solid: NA

Report Date: 19-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4500

Level: LOW

Dilution Factor: 1.00

			Detection Limit	Conc.	Data
	CAS NO.	Compound	ug/l	ug/1	Qualifier
	74-87-3	Chloromethane	10		Ų
_	74-83-9	Bromomethane	10		
	75-01-4	Vinyl chloride	10		y j
	75-00-3	Chloroethane	10		y
	75-09-2	Methylene chloride	10	•	Ų
	67-64-1	Acetone	10	3	· :
	75-15-0	Carbon disulfide	10	,	!!
	75-35-4	1.1-Dichloroethene	10		U
	75-34-3	1.1-Dichloroethane	10		U II
	540-59-0	1.2-Dichloroethene(total)	10		U I
_	67-66-3	Chloroform	10		` "
	107-06-2	1.2-Dichloroethane	10		Ų į
	<b>7</b> 8- <b>9</b> 3-3	2-Butanone	10		U U
	71-55-6	1.1.1-Trichloroethane	10		វ
	56-23-5	Carbon tetrachloride	10	•	
	108-05-4	Vinyl acetate	10		U U
	75-27-4	Bromodichloromethane	10		11.
	78-87-5	1,2-Dichloropropane	10		ŭ
	10061-01-5	cis-1,3-Dichloropropene	10 10		11
	79-01-6	Trichloroethene			11
	71-43-2	Benzene	10 10	_	11
	124-48-1	Dibromochloromethane		•	11
	10061-02-6	trans-1.3-Dichloropropene	10		U H
	79-00-5	1.1.2-trichloroethane	10		0
	75-25-2	Bromoform	10		11
	108-10-1	4-Hethyl-2-pentanone	10		U ·
	<b>591-78-6</b>	2-Hexanone	10		U []
	79-34-5	1.1.2.2-Tetrachloroethane	10		U
	127-18-4	Tetrachloroethene	10		11
	<b>108-88-3</b>	Toluene	10		U
	108-90-7	Chlorobenzene	10		11
	100-41-4	Ethylbenzene	10	· <b>\$</b> (	0
	100-42-5	Styrene	10 10		U 11
_	1330-20-7	Xylenes. Total			0 11
	95-50-1	1,2-Dichlorobenzene	10		, , , , , , , , , , , , , , , , , , ,
	541-73-1	1.3-Dichlorobenzene	10		0
	106-46-7	1.4-Dichlorobenzene	10		11
	110-57-6	trans-1.4-dichloro-2-butene	10		U
	74-88-4	Iodomethane	10		.u
	630-20-6	1.1.1.2-Tetrachloroethane	10		•
<b>-</b>	96-18-4	1.2.3 Trichloropropane Trichlorofluoromethane	10 · · · · · · · · · · · · · · · · ·	·. · · · · · · · · · · · · · · · · · ·	, 2 <b>. (U</b> ). U
. :	75-69-4	Trichlorofluoromethane			

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Results are continued from the previous page for 155919-12

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CAS NO.	Compound	ug/l	ug/l	Qualifier	
107-13-1 74-97-5 106-03-4 96-12-8 74-95-3	Acrylonitrile Bromochloromethane 1.2-Dibromoethane 1.2-Dibromo-3-Chloropropane Dibromomethane	10 10 10 10 10		บ บ บ บ	

COOSES

5.5¢

EPA SAMPLE NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract:STEWART ANG

MW12113095

Lab Name: ENVIROTEST LABS INC.

Code:10142 Case No.:#### SAS No.:####

SDG No.:AC919

Matrix: (soil/water) WATER

Lab Sample ID:155919-12

uple wt/vol: 5.00 (g/ml) ML

Lab File ID: V4500

Level:

(low/med) LOW

Date Received: 12/01/95

foisture: not dec.

Number TICs Found:

Date Analyzed:12/08/95

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

l Extract Volume:0

(uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Client ID: TB-120195

Date Collected: 01-DEC-95

ETL Sample Number: 155919-13

Date Received: 01-DEC-95

Client Name: ANEPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 08-DEC-95

% Solid: NA

Report Date: 19-JAN-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: V4502

Level: LOW

Dilution Factor: 1.00

			Detection	Conc.	Data
	CAS NO.	Compound	Limit ug/l	ug/l	Qualifier.
	74-87-3	Chloromethane	10		V
	74-83-9	Bromomethane	10		. U
	75-01-4	Vinyl chloride	10		U
	75-00-3	Chloroethane	10		U
	75-09-2	Methylene chloride	10		ប
	67-64-1	Acetone	10		U
	75-15-0	Carbon disulfide	10		U
	75-35-4	1.1-Dichloroethene	10		<u>u</u>
	75-34-3	1.1-Dichloroethane	10		Ü
	540-59-0	<pre>1.2-Dichloroethene(total)</pre>	10		ü
	67-66-3	Chloroform	10		- U
	107-06-2	1.2-Dichloroethane	10		U I
	78-93-3	2-Butanone	10		U U
	71-55-6	1.1.1-Trichloroethane	10		U
	56-23-5	Carbon tetrachloride	10 10		ŭ
	108-05-4	Vinyl acetate			Ü
	75-27-4	Bromodichloromethane	10 10		ŭ
	78-87-5	1.2-Dichloropropane cis-1.3-Dichloropropene	10		ŭ
	10061-01-5	C15-1.3-D1CH10ropropene Trichloroethene	10		ŭ
	79-01-6	Benzene	10		ŭ
	71-43-2 124-48-1	Dibromochloromethane	10 -	• •	ŭ
	10061-02-6	trans-1.3-Dichloropropene	10		Ū
	79-00-5	1.1.2-trichloroethane	10	•	์ บั
	75-25-2	Bromoform	10		Ü
	108-10-1	4-Methyl -2-pentanone	10		ប
	591-78-6	2-Hexanone	10		U
	79-34-5	1.1.2.2-Tetrachloroethane	10		ប
	127-18-4	Tetrachloroethene	10 -		U [
•	108-88-3	Toluene	. 10		មួ [
	108-90-7	Chilorobenzene	10		Ü
•	100-41-4	Ethylbenzene	10	( \$ C )	Ü
	100-42-5	Styrene	10	• •	U II
	1330-20-7	Xylenes. Total	10		11
	95-50-1	1,2-Dichlorobenzene	10		ម
	541-73-1	1.3-Dichlorobenzene	10		ii l
-	106-46-7	1,4-Dichlorobenzene 1,1,1,2-Tetrachloroethane	10		l ü
***	630-20-6	1.1.1.2-Tetrachloroethane	10		ប៉
	96-18-4	1.2.3 Trichloropropane	10 · 10	•	ŭ
	75-69-4	Trichlorofluoromethane	10 10	.:	Ŭ
• •	107,13,1	Acrylonitrile	10	Para e	ii l
ž.	74-97-5	Bromochloromethane	10		-

C20069

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Results are continued from the previous page for  $155919 \cdot 13$ 

CAS NO.	Compound	ug/l	ug/l	Qualifier	
106-03-4 96-12-8 74-95-3 110-57-6 74-88-4	1.2-Dibromoethane 1.2-Dibromo-3-Chloropropane Dibromomethane trans-1.4-dichloro-2-butene Iodomethane	10 10 10 10 10		บ บ บ บ	

C26979

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EPA SAMPLE NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

TB-120195

ab	Name:	ENVIROTEST	LABS	INC.
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Contract:STEWART ANG

Lab Code:10142 Case No.:####

SAS No.:#####

SDG No.:AC919

Matrix: (soil/water) WATER

Lab Sample ID:155919-13

Sample wt/vol: 5.00 (g/ml) ML

Lab File ID: V4502

Level: (low/med) LOW

Date Received:12/01/95

% Moisture: not dec.

Date Analyzed:12/08/95

GC Column:DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 0 (uL)

Number TICs Found:

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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### COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab	Name:	ENVIROTEST	LABORATORIES	Contract: STEWA	ART
Lab	Code:	10142	Case No.:	SAS No.:	SDG No.: ANE919
SOW	No.:	ILM02.0			
		MW MW SW SW	-04 -03 -01 -11	Lab Sample 155919-0 155919-0 155919-0 155919-0 155919-0	01 03 04 05
Wer	e ICP	interelemen	t corrections	applied?	Yes/No YES
Wer	If y	es-were raw	corrections a data generat background co	ed before	Yes/No YES Yes/No NO
Com	ments:				
				Ç	
th ha di de	ndition an the rdcopy skette	ons of the conditions of data packate has been a	contract, both detailed abouge and in the authOrized by	e is in compliance with the technically and for compose. Release of the data computer-readable data the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager of the Laboratory Manager	pleteness, for other contained in this submitted on or the Manager's
				COVER PAGE - IN	ILM02.0

Envirolest Laboratories Inc. \_

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Client Name: ANEPTEK

Project Name:

STEWART ANG SITE 1

ETL Sample Number: 155919-01

Client I.D.: MW-12-113095

Date Collected: 30-NOV-95

2 GW/WW Matrix:

Date Received: 01-DEC-95

Comments:

Analysis	Result	Units	Method	Analyzed
Aluminum	460	UG/L	200.7	05-JAN-96
Ammonia-Nitrogen	0.2 U	MG/L	4500-NH3 F	07-DEC-95
Antimony Arsenic	23.4 U 1.2 U	UG/L UG/L	200.7 206.2	05-JAN-96
Barium (1)	1.2 U	UG/L	200.2	02-JAN-96 05-JAN-96
Beryllium	18.8 B 1.2 U	UG/L	200.7	05-JAN-96
Boron	24.4 B	UG/L	200.7	05-JAN-96
Cadmium	2.7 U	UG/L	200.7	05-JAN-96
Calcium	42600	ŬĞŹĹ	200.7	05-JAN-96
Chemical Oxygen Demand	17.9	MG/L	410.2	15-DEC-95
Chromium		UG/L	200.7	05-JAN-96
Cobalt	18.7 B	ÜG/L	200.7	05-JAN-96
Copper	4.3 B	UG/L	200.7	05-Jan-96
Cyanide, Total	10.0 U	UG/L	335.2	22-DEC-96
Iron	698	ŪG/L	200.7	05-JAN-96
Lead	2.3 B 5530 B	UG/L	239.2	02-JAN-96
Magnesium	5530 B	UG/L	200.7	05-JAN-96
Manganese	3370	UG/L	200.7	05-JAN-96
Hercury	0.2 U	UG/L	245.1	29-DEC-95
Nickel	22.5 B	UG/L	200.7	05-JAN-96
Nitrate-Nitrite	0.2 U	MG/L	353.2	11-DEC-95
Potassium	774 B	ŬG∕L -	200.7	05-JAN-96
Selenium	1.8 B	UG/L	270.2	04-JAN-96
Silver -	3370 0:2:U 22.5 B 0:2:U 774 B 1.8 B 2.1 U 7520 1.2 U W	UG/L	200.7	05-JAN-96
Sodium	7520	UG/L	200.7	05-JAN-96
Thallium	1.2 U W	UG/L	279.2	04-JAN-96
Total Hardness	173	MG/L	200.7	05-JAN-96
Total Kjeldahl Nitroger	1 0.5 U	MG/L • MG/L • • • • • • • • • • • • • • • • • • •	4500-NH3 H	12-DEC-95
Total Organic Carbon	1.9 0.01 U	MG/L	415.2 \( \) 420.1	13 - DEC - 95 13 - DEC - 95
Total Phenols	0.01 0 4.7 B	MG/L UG/L	420.1 200.7	13-0EC-95 05-JAN-96
Vanadium Zinc	76.5 * N	UG/L	200.7	05-JAN-96
LIIK	70.5 " N	OG/ L	ζ 200.7	02-1M1-30

Remarks:

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EPA NY049

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Client Name: ANEPTEK

Project Name:

STEWART ANG SITE 1

ETL Sample Number: 155919-02

Client I.D.: MW-12-120195

Matrix:

2 GW/WW

Date Collected: 01-DEC-95

Date Received: 01-DEC-95

Comments:

Analysis	Result	Units	Method	Anal yzed
Alkalinity BOO Bromide Chlorides Color Hexavalent Chromium Sulfate Total Dissolved Solids	86.9 4.2 1.0 U 7.7 5.0 0.01 U	MG/L MG/L MG/L PT-CO MG/L MG/L MG/L	2320 B 5210-B 300 4500-CLB 2120-B 7196 375-4 160.1	05-DEC-95 01-DEC-95 04-DEC-95 15-DEC-95 04-DEC-95 01-DEC-95 28-DEC-95

Remarks:

Envirollest Laboratories Inc.

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

COTTON DE DES ACCES

EDR KINT

Client Name: ANEPTEK

Project Name:

STEWART ANG SITE 1

, ETL Sample Number: 155919-03

Client I.D.: MW-04-120195

Matrix:

2 GW/WW

Date Collected: 01-DEC-95

Date Received: 01-DEC-95

Comments:

Analysis	Result	Units	Method	Analyzed
Alkalinity	176	HG/L	2320 Billion and	
Aluminum	53.1 B	UG/L	200.7	05-JAN-96
Ammonia-Nitrogen	0.2 U	MG/L	4500-NH3 F	07-DEC-95
Antimony Arsenic	23.4 U 1.2 U	UG/L	200.7	05-JAN-96
BOD	1.2 0	UG/L MG/L	206.2	02-JAN-96
Barium (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	12.0 B	UG/L	5210-B 200.7	01-DEC-95
Beryllium	1.2 U	UG/L	200.7	05-JAN-96
Boron	59.9	UG/L	200.7	05-JAN-96 05-JAN-96
Bromide	1.0 U	MG/L	300	04-DEC-95
Cadmium	2.7 Ŭ	UG/L	200.7	05-JAN-96
Calcium	70500	ŬĜ/L	200.7	05-JAN-96
Chemical Oxygen Demand		MG/L	410.2	15-DEC-95
Chlorides	21.8 2.0 U 10.3 U 7.1 U	MG/L	4500-CLB	15-DEC-95
Chromium	10.3 U	UG/L	200.7	05-JAN-96
Cobalt	7.1 U	UG/L	200.7	05-JAN-96
Color	10`	PT-CO	2120-B	04-DEC-95
Cobalt Color Copper Cyanide, Total	3.9 B	UG/L.	200.7	05-JAN-96
Cyanide, Total	10.0 U	UG/L	335.2	
Hexavalent Chromium	0.01 U	MG/L	7196	01-DEC-95
Iron	42.6 B	UG/L	200.7	05-JAN-96
Lead Magnesium Manganese Mencuny Nickel	1.8 B	UG/L -	239.2	02-JAN-96
magnesium	12000	UG/L	200.7	05-JAN-96
nanganese	/83	UG/L UG/L	200.7	05-JAN-96
nercury Niekal	0.2.U		245.1	29-DEC-95
Nitrate-Nitrite	1/.2 B	UG/L	200.7 353.2	05-JAN-96
Potassium	1590 B	MG/L UG/L	200.7	11-DEC-95 05-JAN-96
Selenium	1390 B	OG/L	270.2	::04-JAN-96
Silver	2.7 B	UG/L	200.7	05-JAN-96
Sodium	24400	UG/E	200.7	
Sulfate	112	MG/L	375.4	28-DEC-95
Thallium	1.2 U	UG/Doctores	279.2	04-JAN-96
Thallium Total Dissolved Solids	358	MG/L	160.1	06-DEC-95
Total Hardness	226	MG/L	200.7	05-JAN-96
Total Kjeldahl Nitroge	ก 0.5 ป	MG/L	4500-NH3 H	12-DEC-95
Total Organic Carbon	7.7	MG/L	415.2	13-DEC-95
Total Phenols	0.01 U	MG/L	420.1	13-DEC-95

EPA NY049



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Results are continued from the previous page for 155919-03

Analysis	Result	Units	Method	Analyzed	
Vanadium	4.8 B	UG/L	200.7	05-JAN-96	
Zinc	43.1 * N	UG/L	200.7	05-JAN-96	

Remarks:

C00140

Client Name: ANEPTEK

Project Name:

STEWART ANG SITE 1

ETL Sample Number: 155919-04

Client I.D.: SW-03-120195 (MS/MSD)

Date Collected: 01-DEC-95

Matrix:

2 GW/WW

Date Received: 01-DEC-95

Comments:

	Analysis	Result	Units	Method	Analyzed
	Alkalinity	82.8	MG/L	2320 B	05-DEC-95
	Aluminum	155 B	UG/L	200.7	05-JAN-96
	Ammonia-Nitrogen	0.2 ป	HG/L	4500-NH3 F	07-DEC-95
	Antimony	23.4 U	UG/L	200.7	05-JAN-96
	Arsenic	1.2 U	UG/L	206.2	02-JAN-96
	800	3.0 U	MG/L	5210-B	01-DEC-95
	Barium	23.8 B	UG/L Section	200.7	05-JAN-96
	Beryllium	1.2 U	UG/L	200.7	05-JAN-96
	Boron	13,6 B	UG/L	200.7	05-JAN-96
	Bromide	1.0 U	MG/L	300	04-DEC-95
	Cadmium	2.7 U	UG/L	200.7 200.7	05-JAN-96 05-JAN-96
•	Calcium	58400	OG7L MG7L ∴	410.2	15-DEC-95
	Chemical Oxygen Demand	16.4	MG/L	4500-CLB	15-DEC-95
	Chlorides Chromium	10.4 10.3 U	UG/L	200.7	05-JAN-96
	Cobalt	7.1 U	UG/L	200.7	05-JAN-96
	Colon	7.1 0	PT-CO	2120-B	04-DEC-95
	Color	20 4.8 B	UG/L	200.7	05-JAN-96
	Copper Cyanide, Total	- : : : : : : : : : : : : : : : : : : :	ŬĞ/Ĺ	335.2	22+DEC-96
	Hexavalent Chromium	\$1 433 TS	NG/L	7196	01-DEC-95
	Iron	• • • • • • • • • • • • • • • • • • •	UG/L	200.7	05-JAN-96
	Load	2.0 B	UG/1	239.2	02-JAN-96
	Hagnesium	70.0 B 2.0 B 5020 B	UG/L Î	200.7	05-JAN-96
	Manganese	22.4	UG/L	200.7	05-JAN-96
	Mercury	22.4 0.2 U 14.1 U	UG/L	245.1	29-DEC-95
	Nickel	14.1 U	UG/L	200.7	05-JAN-96
	Nitrate-Nitrite		MG/L	353.2	11-DEC-95
	Potassium	729 R	ÚG/L	200.7	05-JAN-96
	Selenium	2.0 B 2.6 B	UG/L	270.2	04-JAN-96
	Silver	2.6 B	UG/L	200.7	05-JAN-96
	Sodium	9470	- UG/L	200.7	05-JAN-96
	Sulfate	33.5	MG/L	375.4	28-DEC-95
	Thallium	1.2 U	igna er de <mark>UG/L</mark> and <b>(1889)</b> €	279.2	04 - JAN - 96 06 - DEC - 95
	Total Dissolved Solids Total Hardness	90 167	MG/L	160.1	05-DEC-95 05-JAN-96
	Total Hardness	167	MG/L	200.7 4500-NH3 H	12-DEC-95
	Total Kjeldahl Nitrogen	0.5 ป 3.9 0.01 ป	MG/L	4500-NGS R 415.2	12-0EC-95
كالمستثلة	Total Organic Carbon	3.9	MG/L	420.1	13-DEC-95
, <del>3</del>	Total Phenols	O.OT O	MG/L	420.1	12-000-33



EPA NYO49

NJDEP 73507

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Results are continued from the previous page for 155919-04

Analysis	Result	Units	Method	Anal yzed	
Vanadium	3.4 U	UG/L	200.7	05-JAN-96	-
Zinc	323 * N	UG/L	200.7	05-JAN-96	

Remarks:

CC0142

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Client Name: ANEPTEK

Project Name:

STEWART ANG SITE 1

ETL Sample Number: 155919-05

133317 03

Client I.D.: SW-01-120195

Matrix:

2 GW/WW

Date Collected: 01-DEC-95

Date Received: 01-DEC-95

Comments:

Alkalinity 111 MG/L 2320 B 05-DEC-95 Aluminum 105 B UG/L 200.7 05-JAN-96 Ammonia-Nitrogen 0.2 U MG/L 200.7 05-JAN-96 Antimony 23.4 U UG/L 200.7 05-JAN-96 Arsenic 1.2 U UG/L 200.7 05-JAN-96 BOO 3.0 U MG/L 206.2 02-JAN-96 BOO 3.0 U MG/L 5210-B 01-DEC-95 Bartum 17.0 B UG/L 200.7 05-JAN-96 Beryllium 1.2 U UG/L 200.7 05-JAN-96 Bronide 1.0 U MG/L 200.7 05-JAN-96 Bromide 1.0 U MG/L 200.7 05-JAN-96 Bromide 1.0 U MG/L 300 04-DEC-95 Cadmium 22.7 U UG/L 200.7 05-JAN-96 Calcium 50400 UG/L 200.7 05-JAN-96 Chemical Oxygen Demand 315.9 MG/L 200.7 05-JAN-96 Chemical Oxygen Demand 315.9 MG/L 200.7 05-JAN-96 Chemical Oxygen Demand 315.9 MG/L 400.2 15-DEC-95 Chlorides 63.6 MG/L 4500-CLB 15-DEC-95 Chlorides 63.6 MG/L 200.7 05-JAN-96 Cobalt 7.1 U UG/L 200.7 05-JAN-96 Cobalt 7.1 U UG/L 200.7 05-JAN-96 Cobalt 7.1 U UG/L 200.7 05-JAN-96 Cobalt 7.1 U UG/L 200.7 05-JAN-96 Cobalt 7.1 U UG/L 200.7 05-JAN-96 Cyanide Total 10.0 U UG/L 200.7 05-JAN-96 Cyanide Total 10.0 U UG/L 200.7 05-JAN-96 Cyanide Total 10.0 U UG/L 200.7 05-JAN-96 Cyanide Total 10.0 U UG/L 200.7 05-JAN-96 Cyanide Total 10.0 U UG/L 200.7 05-JAN-96 Cyanide Total 10.0 U UG/L 200.7 05-JAN-96 Cyanide Total 10.0 U UG/L 200.7 05-JAN-96 Cyanide Total 10.0 U UG/L 200.7 05-JAN-96 Magnestum 6540 UG/L 239.2 02-JAN-96 Magnestum 6540 UG/L 200.7 05-JAN-96 Magnestum 6540 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7 05-JAN-96 Mercury 15-Led 0.9 UG/L 200.7	
Barium   17.0 B   UG/L   200.7   05-JAN-96	
Cadmium       2.7 U       UG/L       200.7       05-JAN-96         Calcium       50400       UG/L       200.7       05-JAN-96         Chemical Oxygen: Demand       15.9       MG/L       410.2       15-DEC-95         Chlorides       63.6       MG/L       4500-CLB       15-DEC-95         Chromitum       10.3 U       UG/L       200.7       05-JAN-96         Cobalt       7.1 U       UG/L       200.7       05-JAN-96         Color       15       PT-CO       2120-B       04-DEC-95         Copper       3.9 B       UG/L       200.7       05-JAN-96         Cyanide, Total       10.0 U       UG/L       335.2       22-DEC-96         Hexavalent Chromium       0.01 U       MG/L       7196       01-DEC-95         Iron       347       UG/L       200.7       05-JAN-96         Lead       0.96 B       UG/L       239.2       02-JAN-96         Hagnesium       6540       UG/L       200.7       05-JAN-96         Manganese       89.6       UG/L       200.7       05-JAN-96	
Color         15         PT=CO         2120-B         04-DEC=95           Copper         3.9 B         UG/L         200.7         05-JAN-96           Cyanide. Total         10.0 U         UG/L         335.2         22-DEC=96           Hexavalent Chromium         0.01 U         MG/L         7196         01-DEC-95           Iron         347         UG/L         200.7         05-JAN-96           Lead         0.96 B         UG/L         239.2         02-JAN-96           Hagnesium         6540         UG/L         200.7         05-JAN-96           Manganese         89.6         UG/L         200.7         05-JAN-96	
Hexavalent Chromium 0.01 0 MG/L 7196 01-DEC-95  Iron 347 UG/L 200.7 05-JAN-96  Lead 0.96 B UG/L 239.2 02-JAN-96  Hagnesium 6540 UG/L 200.7 05-JAN-96  Manganese 89.6 UG/L 200.7 05-JAN-96	
AND THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRA	
Nitrate Nitrite 0.2U MG/L 353.2 11=DEC-95 Potassium 356 B UG/L 200.7 05-JAN-96	
Silver     2.1 U     UG/L     200.7     05-JAN-96       Sodium     31000     UG/L     200.7     05-JAN-96       Sulfate     31.0     MG/L     375.4     28-DEC-95       Thallium     1.2 U     UG/L     279.2     04-JAN-96	
Total Dissolved Solids 166 MG/L 160.1 06-DEC-95 Total Hardness 153 MG/L 200.7 05-JAN-96 Total Kjeldahl Nitrogen 0.5 U MG/L 4500-NH3 H 12-DEC-95 Total Organic Carbon 3.3 MG/L 415.2 13-DEC-95 Total Phenols 0.01 U MG/L 420.1 13-DEC-95	

G30143

EPA NY049

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Results are continued from the previous page for 155919-05

Analysis	Result	Units	Method	Analyzed
Vanadium	3.4 U	UG/L	200.7	05-JAN-96
Zinc	90.0 * N	UG/L	200.7	05-JAN-96

Remarks:

C00144

EPA NYO49

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3

## Inorganics Analysis Data Sheet Form I - IN $\hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill \hfill$

Client Name: ANEPTEK

Date Collected: 01-DEC-95

Project Name:

STEWART ANG SITE 1

ETL Sample Number: 155919-06

Client I.D.: SW-11-120195

Matrix:

2 GW/WW

Date Received: 01-DEC-95

Comments:

Alkalinity 109		Analysis	Result	Units	Method	Analyzed
Amonnia-Nitrogen Antimony Amonnia-Nitrogen Antimony Arsenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic Ansenic BOO Ansenic BOO Ansenic Boo Boo Boo Boo Boo Boo Boo Boo Boo Bo						
Antimony 23.4 U UG/L 200.7 05-JAN-96 BOD 3.0 U UG/L 206.2 02-JAN-96 BOD 3.0 U UG/L 200.7 05-JAN-96 BOD 3.0 U UG/L 200.7 05-JAN-96 BOD 18.8 B UG/L 200.7 05-JAN-96 BOD 19.2 U UG/L 200.7 05-JAN-96 BOD 19.2 U UG/L 200.7 05-JAN-96 BOD 19.2 U UG/L 200.7 05-JAN-96 BOD 19.2 U UG/L 200.7 05-JAN-96 BOD 19.2 U UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG				NG/I	4500.7	03-JAN-90 07-DEC-95
Arsenic 1.2 U UG/L 206.2 02-JAN-96 B0D 3.0 U HG/L 5210-B 01-DEC-95 Barium 18.8 B UG/L 200.7 05-JAN-96 Beryllium 1.2 U UG/L 200.7 05-JAN-96 Beryllium 1.2 U UG/L 200.7 05-JAN-96 Beryllium 1.2 U UG/L 200.7 05-JAN-96 Boron 26.0 B UG/L 200.7 05-JAN-96 Bromide 1.0 U HG/L 200.7 05-JAN-96 Cadmium 2.7 U UG/L 200.7 05-JAN-96 Cadmium 2.7 U UG/L 200.7 05-JAN-96 Calcium 55100 UG/L 200.7 05-JAN-96 Chemical Oxygen Demand 9.9 HG/L 200.7 05-JAN-96 Chemical Oxygen Demand 9.9 HG/L 410.2 35-DEC-95 Chiorides 64.6 HG/L 4500-CLB 15-DEC-95 Chromitum 10.3 U UG/L 200.7 05-JAN-96 Color 15 DEC-95 Chromitum 10.3 U UG/L 200.7 05-JAN-96 Color 15 P1-CO 2120-B 04-DEC-95 Copper 4.0 B UG/L 200.7 05-JAN-96 Cyanide Total 10.0 UG/L 200.7 05-JAN-96 Cyanide Total 10.0 UG/L 200.7 05-JAN-96 Hexavalent Chromium 0.01 U HG/L 200.7 05-JAN-96 Hexavalent Chromium 0.01 U HG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 Harganese 101 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 UG/L 20			23.4 U		200.7	05-JAN-96
BOO   3.0 U   NG/L   5210-8   01-DEC-95			1.2 U	UG/L	206.2	02-JAN-96
Beryllium			3.0 U		5210-B	
Boron			18.8 B	<b>U</b> G/L	200.7	
Bromide			1.2 U	UG/L	200.7	05-JAN-96
Cadmitum   2,7 U   UG/L   200.7   05-JAN-96   Calcium   55100   UG/L   200.7   05-JAN-96   Chemical Oxygen Demand   9.9   MG/L   410.2   315-DEC-95   Chlorides   64.6   MG/L   4500-CLB   15-DEC-95   Chromitum   10,3 U   UG/L   200.7   05-JAN-96   Color   15   PT-CO   2120-B   04-DEC-95   Copper   4.0 B   UG/L   200.7   05-JAN-96   Cyanide, Total   10.0   UG/L   200.7   05-JAN-96   Cyanide, Total   10.0   UG/L   200.7   05-JAN-96   Cyanide, Total   10.0   UG/L   200.7   05-JAN-96   Cyanide, Total   10.0   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN-96   UG/L   200.7   05-JAN			26.0 B			05-JAN-96
Calcium         55100         UG/L         200.7         05-JAN-96           Chemical Oxygen Demand         9.9         HG/L         410.2         15-DEC-95           Chlorides         64.6         MG/L         4500-CLB         15-DEC-95           Chromium         10.3 U         UG/L         200.7         05-JAN-96           Cobalt         7.1 U         UG/L         200.7         05-JAN-96           Cobor         15         PT-CO         2120-B         04-DEC-95           Copper         4.0 B         UG/L         200.7         05-JAN-96           Cyanide Total         10.0         UG/L         335.2         22-DEC-96           Hexavalent Chromium         0.01 U         MG/L         7196         01-DEC-95           Iron         455         UG/L         200.7         05-JAN-96           Lead         1.6 B         UG/L         239.2         02-JAN-96           Hagnesium         6990         UG/L         200.7         05-JAN-96           Harring         0.2 U         UG/L         200.7         05-JAN-96           Nickel         16.7 B         UG/L         245.1         29-DEC-95           Nickel         16.7 B         UG/L<			1.0 U		300	
Chemical Oxygen Demand   9.9   HG/L   410.2   15.DEC.95			2./ U 66100	UG/L UC/I	200.7	
Chlorides 64.6 MG/L 4500-CLB 15-DEC-95 Chromitim 10.3 U UG/L 200.7 05-JAN-96 Color 7.1 U UG/L 200.7 05-JAN-96 Color 15 PT-CO 2120-B 04-DEC-95 Copper 4.0 B UG/L 200.7 05-JAN-96 Cyanide, Total 10.0 UG/L 335.2 22-DEC-96 Hexavalent Chromium 0.01 U MG/L 7196 01-DEC-95 Tron 455 UG/L 200.7 05-JAN-96 UG/L 200.7 05-JAN-96 Lead 1.6 B UG/L 239.2 02-JAN-96 Magnesium 6990 UG/L 239.2 02-JAN-96 Manganese 101 UG/L 200.7 05-JAN-96 Mercury 0.2 U UG/L 200.7 05-JAN-96 Mercury 0.2 U UG/L 200.7 05-JAN-96 Nitrate*Nitrite 0.2 U UG/L 200.7 05-JAN-96 Nitrate*Nitrite 0.2 U UG/L 200.7 05-JAN-96 Selenium 379 B UG/L 200.7 05-JAN-96 Selenium 1.6 U UG/L 200.7 05-JAN-96 Selenium 379 B UG/L 200.7 05-JAN-96 Selenium 1.6 U UG/L 200.7 05-JAN-96 Selenium 1.6 U UG/L 200.7 05-JAN-96 Selenium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 375.4 28-DEC-95 Tallium 1.2 U UG/L 375.4 28-DEC-95 Tallium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN-96 Sodium 1.2 U UG/L 279.2 04-JAN				MG/L		
Chromium					4500-CLB	
Cobalt 7.1 U UG/L 200.7 05-JAN-96 Color 15 PT-CO 2120-B 04-DEC-95 Copper 4.0 B UG/L 200.7 05-JAN-96 Cyanide Total 10.0 UG/L 335.2 22-DEC-96 Hexavalent Chromium 0.01 U MG/L 7196 01-DEC-95 Iron 455 UG/L 200.7 05-JAN-96 Lead 1.6 B UG/L 239.2 02-JAN-96 Magnesium 6990 UG/L 200.7 05-JAN-96 Manganese 101 UG/L 200.7 05-JAN-96 Manganese 101 UG/L 200.7 05-JAN-96 Mercury 0.2 U UG/L 200.7 05-JAN-96 Nickel 16.7 B UG/L 245.1 29-DEC-95 Nickel 16.7 B UG/L 200.7 05-JAN-96 Nitrate-Nitrite 0.2 U UG/L 353.2 11-DEC-95 Potassium 379 B UG/L 353.2 11-DEC-95 Selenium 1.6 U UG/L 200.7 05-JAN-96 Selenium 1.6 U UG/L 200.7 05-JAN-96 Selenium 3000 UG/L 200.7 05-JAN-96 Silver 2.1 U UG/L 270.2 04-JAN-96 Silver 2.1 U UG/L 270.2 04-JAN-96 Silver 31.0 UG/L 270.7 05-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Soliate 31.0 MG/L 375.4 28-DEC-95 Thallium 1.2 U UG/L 279.2 04-JAN-96 Total Dissolved Solids 220 MG/L 160.1 06-DEC-95			<-3. <10.3 (U − − − − − − − − − − − − − − − − − −	OG/1		
Color			7.1 U	UG/L	200.7	05-JAN-96
Copper 4.0 B UG/L 200.7 05-JAN-96 Cyanide Total 10:0 UG/L 335.2 22-DEC-96 Hexavalent Chromium 0.01 U MG/L 7196 01-DEC-95 Iron Lead 1.6 B UG/L 200.7 05-JAN-96 Lead 1.6 B UG/L 239.2 02-JAN-96 Magnesium 6990 UG/L 200.7 05-JAN-96 Marganese 101 UG/L 200.7 05-JAN-96 Mercury 0.2 U UG/L 245.1 29-DEC-95 Nickel 16.7 B UG/L 245.1 29-DEC-95 Nickel 16.7 B UG/L 200.7 05-JAN-96 Nitrate-Nitrite 0.2 U MG/L 200.7 05-JAN-96 Selenium 379 B UG/L 200.7 05-JAN-96 Selenium 1.6 U UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 270.2 04-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 Sodium 33000 UG/L 200.7 05-JAN-96 S			15	PT-CO	2120-B	04-DEC-95
Cyanide, Total         10.0         UG/L         335.2         22.DEC.96           Hexavalent Chromium         0.01 U         MG/L         7196         01-DEC-95           Iron         455         UG/L         200.7         05-JAN.96           Lead         1.6 B         UG/L         239.2         02-JAN.96           Magnesium         6990         UG/L         200.7         05-JAN.96           Harganese         101         UG/L         200.7         05-JAN.96           Hercury         0.2 U         UG/L         245.1         29-DEC.95           Nickel         16.7 B         UG/L         200.7         05-JAN.96           Nitrate.Nitrite         0.2 U         MG/L         353.2         11-DEC.95           Potassium         379 B         UG/L         200.7         05-JAN.96           Selenium         1.6 U         UG/L         270.2         04-JAN.96           Silver         2.1 U         UG/L         200.7         05-JAN.96           Sodium         33000         UG/L         200.7         05-JAN.96           Sulfate         31.0         MG/L         279.2         04-JAN.96           Total Dissolved Solids         220         <		Copper	4.0 B			
Iron		Cyanide. Total	10.0	UG/L	335.2	
Lead       1.6 B       UG/L       239.2       02-JAN-96         Magnesium       6990       UG/L       200.7       05-JAN-96         Hanganese       101       UG/L       200.7       05-JAN-96         Hercury       0.2 U       UG/L       245.1       29-DEC-95         Nickel       16.7 B       UG/L       200.7       05-JAN-96         Nitrate*Nitrite       0.2 U       MG/L       353.2       11-DEC-95         Potassium       379 B       UG/L       200.7       05-JAN-96         Selenium       379 B       UG/L       200.7       05-JAN-96         Silver       2.1 U       UG/L       270.2       04-JAN-96         Sodium       33000       UG/L       200.7       05-JAN-96         Sulfate       31.0       MG/L       200.7       05-JAN-96         Sulfate       31.0       MG/L       375.4       28-DEC-95         Thallium       1.2 U       UG/L       279.2       04-JAN-96         Total Dissolved Solids       220       MG/L       160.1       06-DEC-95			0.01 U	MG/L	7196	01-DEC-95
Manganese       101       UG/L       200.7       05-JAN-96         Mercury       0.2 U       UG/L       245.1       29-DEC-95         Nickel       16.7 B       UG/L       200.7       05-JAN-96         Nitrate Nitrite       0.2 U       MG/L       353.2       11-DEC-95         Potassium       379 B       UG/L       200.7       05-JAN-96         Selenium       1.6 U       UG/L       270.2       04-JAN-96         Silver       2.1 U       UG/L       200.7       05-JAN-96         Sodium       33000       UG/L       200.7       05-JAN-96         Sodium       33000       UG/L       200.7       05-JAN-96         Sulfate       31.0       MG/L       375.4       28-DEC-95         Thallium       1.2 U       UG/L       279.2       04-JAN-96         Total Dissolved Solids       220       MG/L       160.1       06-DEC-95		Iron	455	UG/L	200.7	
Manganese       101       UG/L       200.7       05-JAN-96         Mercury       0.2 U       UG/L       245.1       29-DEC-95         Nickel       16.7 B       UG/L       200.7       05-JAN-96         Nitrate Nitrite       0.2 U       MG/L       353.2       11-DEC-95         Potassium       379 B       UG/L       200.7       05-JAN-96         Selenium       1.6 U       UG/L       270.2       04-JAN-96         Silver       2.1 U       UG/L       200.7       05-JAN-96         Sodium       33000       UG/L       200.7       05-JAN-96         Sodium       33000       UG/L       200.7       05-JAN-96         Sulfate       31.0       MG/L       375.4       28-DEC-95         Thallium       1.2 U       UG/L       279.2       04-JAN-96         Total Dissolved Solids       220       MG/L       160.1       06-DEC-95			1.6 B		239.2	
Nitrate Nitrite			101		200.7	
Nitrate Nitrite				OG/L HC/I	245 1	993NFC-95
Nitrate Nitrite		Nickel	16 7 R		200.7	05-JAN-96
Selenium		Nitrate Nitrite	<u>ี้งเข้า</u>		353.2	
Selenium		Potassium	379 B	UG/L	200.7	05-JAN-96
Silver       2.1 U       UG/L       200.7       05-JAN-96         Sodium       33000       UG/L       200.7       05-JAN-96         Sulfate       31.0       MG/L       375.4       28-DEC-95         Thallium       1.2 U       UG/L       279.2       04-JAN-96         Total Dissolved Solids       220       MG/L       160.1       06-DEC-95		Selenium	1.60			
Sulfate     31.0     MG/L     375.4     28-DEC-95       Thallium     1.2 U     UG/L     279.2     04-JAN-96       Total Dissolved Solids     220     MG/L     160.1     06-DEC-95			2.1 U			
Thallium: 1.2 U UG/L 4 279.2 04-JAN:96 Total Dissolved Solids 220 MG/L 160.1 06-DEC-95			33000			
Total Dissolved Solids 220 MG/L 160.1 06-DEC-95	•		31.0		3/5.4	28-DEC-95
10001 010001100 001100			1.2 U			04-JAN-90
TAX-30-U-9346-94-00-00-00-00-00-00-00-00-00-00-00-00-00			220 167	MG/L MG/L	200.7	05-JAN-96
Total Hardness 167 MG/L 200.7 05-JAN-96 Total Kjeldahl Nitrogen 0.5 U MG/L 4500-NH3 H 12-DEC-95		Total Marquess	0.5 H	MG/I	4500.NH3	H 12-DFC-95
Total Kjeldahl Nitrogen 0.5 U MG/L 4500-NH3 H 12-DEC-95 Total Organic Carbon 4.7 MG/L 415.2 13*DEC*95		Total Organic Carbon	<b>4.7</b>	MG/L		
Total Phenols 0.01 U MG/L 420.1 13-DEC-95			0.01 U			



CCC145

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Results are continued from the previous page for 155919-06

Analysis	Result	Units	Method	Anal yzed	
Vanadium Zinc	3.4 U 111 * N	UG/L UG/L	200.7 200.7	05-JAN-96 05-JAN-96	
		<b>V C</b>		05 0411 50	

Remarks:

**CCC146** 

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Envirolest Laboratories Inc.

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Client Name: ANEPTEK

Project Name:

STEWART ANG SITE 1

ETL Sample Number: 155919-07

Client I.D.: SW-02-120195

Date Collected: 01-DEC-95

Matrix: 2 GW/WW

Date Received: 01-DEC-95

Comments:

Analysis	Result	Units	Method	Analyzed
Alkalinity	145	MG/L	2320 B	05-DEC-95
Aluminum	66.3 B	UG/L	200.7	05-JAN-96
Ammonia-Nitrogen	0.2 ป	MG/L	4500-NH3 F	07-DEC-95
Antimony	23.4 U	UG/L	200.7	05-JAN-96
Arsenic	1.2 ป	UG/L	206.2	02-JAN-96
B00	3.0 U	MG/L	5210-B	01-DEC-95
Barium	24.7 B	UG/L	200.7	05-JAN-96
Beryllium	1.2 U	UG/L	200.7	05-JAN-96
Boron	27.5 B	UG/L	200.7	05-JAN-96
Bromide	1.0 U	MG/L	300	04-DEC-95
Cadmium	2.7 U	UG/L	200.7	05-JAN-96
Calcium	67300	UG/L	200.7	05-JAN-96
Chemical Oxygen Demand	15.9	MG/L	410.2	15-DEC-95
Chlorides	66.5	MG/L	4500-CLB	15-DEC-95
Chromium	10.3 U	UG/L	200.7	05-JAN-96
Cobalt	7.1 U	UG/L	200.7 2120-B	05-JAN-96
Çolor	30	PT-CO	2120-B	04-0EC-95
Copper	4.4 B	UG/L.	200.7	05-JAN-96
Cyanide, Total	10.0 U	UG/L	335.2	22-DEC-96
Hexavalent Chromium Iron	0.01 U	MG/L	7196	01-DEC-95
Iron	114	ÚG/L	200.7	05-JAN-96
Lead	1.4 B	UG/L .	239.2	02-JAN-96
Magnesium	6640	ile\frac{1}{2}	200.7	05-JAN-96
Manganese	366	UG/L	200.7	05-JAN-96
Mercury	0.2 U	UG/L	245.1	29-DEC-95
Nickel	14.3 B	UG/L MG/L	200.7 353.2	05-JAN-96 11-DEC-95
Nitrate*Nitrite	0.2 U		200.7	05-JAN-96
Potassium	632 B	UG/L UG/L	200.7 270.2	
SeTenium	1.6 U 2.2 B	UG/L	200.7	05-JAN-96
Silver	34100	UG/L	200.7	05-JAN-96
Sodium	30.0	MG/L	375.4	28-DEC-95
Sulfate	30.0 1.2 U	UG/L		04-JAN-96
Thallium Total Dissolved Solids	242	MG/L	160.1	06-DEC-95
Total Dissolved Solids		MG/L	200.7	05-JAN-96
Total Hardness Total Kjeldahl Nitrogen	0.5 U	MG/L	4500-NH3 H	12-DEC-95
Total Organic Carbon		MG/L	415.2	13-DEC-95
TOLAT OF YATE COLAT DOLL	0.01 U	MG/L	420.1	13-DEC-95

GCC147

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Results are continued from the previous page for 155919-07

Analysis	Result	Units	Method	Anal yzed	
Vanadium	3.4 U	UG/L	200.7	05-JAN-96	
Zinc	125 * N	UG/L	200.7	05-JAN-96	

Remarks:

CCC148

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EnviroTest Laboratories Inc.

CTTC: 15 TH | AT

 $\mathcal{Z}_{i,j}^{(k)}$ 

ED4 #10040

### 2A WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

ab Name: ENVIROTEST LABS ANC.

Contract:STEWART ANG

ab Code:10142

Case No.: #####

SAS No.:#####

SDG No.:AC919

	EPA	SMC1	SMC2	SMC3	OTHER	TOT
	SAMPLE !	(TOL)#	(BFB)#	(DCE)#		OUT
	=======================================	=====	=====	=====	=====	===
01	MW0412019:	100	102	104		0
02	MW121130:	100	100	104		0.
03	SW0112019	104	102	106		0
04	SW02120191	102	104	102		0
05	SW03	1.04	106	106		0
06	SW03MS	102	102	106		0
07	SW03MSD	98	98	104		0
08	SW111201:	98	98	100		0
09	TB-12019!	98	98	100		0
10	VBLKC4	102	104	104		0
11	VBSPK	98	96	98		0
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SMC1 (TOL) = Pluene-d8 (88-110) SMC2 (BFB) = Promofluorobenzene (86-115) SMC3 (DCE) = 1 2-Dichloroethane-d4 (76-114)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D System Monitoring Compound diluted out

₹ \$\$

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

b Name: ENVIROTEST LABS INC.

Contract:STEWART ANG

Code:10142

Case No.:: ####

SAS No.:#####

SDG No.:AC919

trix Spike - EPA Sample ...:

SW03

	. ?I	SAMPLE	MS	MS	QC.
	D		CONCENTRATION	બ	LIMITS
COMPOUND	ug,)	(ug/L)	(ug/L)	REC #	REC.
:======================================		=========	===========	=====	=====
-Dichloroethene	20.	· 0 .	21.	105	83-136
Benzene	30.	0.	20.	100	64-170
richloroethene	20.	0.	20.	100	68-131
o uene	20.	0.	20.	100	64-132
Torobenzene :	$\frac{1}{20}$ .	0.	20.	100	91-115
				l	

COMPOUND	. (TILY - (TILY - (S/4)	MSD CONCENTRATION (ug/L)	REC #	% RPD # =====	QC LI RPD	REC.
1,1-Dichloroethene Benzene Tichloroethene Reluene Chlorobenzene	$ \begin{array}{r}                                     $	20. 20. 20. 19.	100 100 100 95 95	5 0 0 5 5	14 14 11 13 13	83-136 64-170 68-131 64-132 91-115

Flumn to be used to flag recovery and RPD values with an asterisk alues outside of QC limits

0 out of ke Recovery:

5 outside limits 0 out of 10 outside limits

OMMENTS:

₹ 33

### VOLATILE WATER BLANK SPIKE RECOVERY

Client Name: Aneptek

Lab Name: EnviroTest Laboratories, Inc.

ETL Sample No.: VBSPK

Client Sample ID.: VBSPK

Date of Analysis: 12/8/95

Instrument ID: MSD

	SPIKE	SAMPLE	BLKSPK	BLKSPK	QC
	ADDED	CONCENTRATION	CONCENTRATION	*	LIMITS
COMPOUND	(ug/l)	(ug/l)	(ug/1)	REC. #	REC.
=======================================	======	=======================================	=======================================	=======	[======
1,1-Dichloroethene	20.00	υ [	20	100.0	83-136
Trichloroethene	20.00	υ	20	100.0	64-170
Benzene	20.00	ט	20	100.0	68-131
Toluene	20.00	υ	20	100.0	64-132
Chlorobenzene	20.00	υ	20	100.0	91-115
					II

# Column to be used to flag recovery values

\* Values outside of EnviroTest established QC limits

FORM III VOA-1

CCCOIS

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### 5A SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW--03S

Lab Name: ENVIROTEST LABORATORIES Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE919

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): UG/L

								ŀ	- 1
	Control								
	Limit	Spiked Sample		Sample		Spike			ł
Analyte	%R	Result (SSR)	C	Result (SR)	C	Added (SA)	%R	Q	M
Aluminum	75-125	2020.8670		155.2569	В	2000.00	- 93.3		PM
Antimony	75-125	519.0037		23.4444	$\overline{\overline{\mathbf{U}}}$	500.00	103.8		PM
Arsenic	75-125	44.3333		1.2222	<u>ט</u>	40.00	110.8		FM
Barium	75-125	1908.7231		23.8213	$\overline{\mathbf{B}}$	2000.00	94.2		PM
Beryllium	75-125	52.1618		1.2222	U	50.00	104.3		PM
Cadmium	75-125	51.3259		2.6667	<u>บิ</u>	50.00	102.7		PM
Calcium					_				NR
Chromium	75-125	202.7237		10.3333	Ū	200.00	101.4		PM
Cobalt	75-125	487.6058		7.1111	Ū	500.00	97.5		PM
Copper	75-125	250.7576	_	4.7567	$\overline{\mathbf{B}}$	250.00	98.4		PM
Iron	75-125	1014.0646		70.0196	B	1000.00	94.4	_	PM
Lead	75-125	24.8000		2.0111	B	· 20.00	113.9	_	FM
Magnesium			_		_				NR
Manganese	75-125	492.3953	_	22.3514	_	500.00	94.0	_	PM
Mercury	75-125	1.0930	_	0.2000	Ū	1.00	109.3	_	CV
Nickel	75-125	515.7158		14.1111	Ū	500.00	103.1	_	PM
Potassium								_	NR
Selenium	75-125	13.9667	_	1.9556		10.00	120.1	_	FM
Silver	75-125	44.0746		2.6093	В	50.00	82.9	_	PM NR
Sodium					_			_	
Thallium	75-125	50.1333	_	1.2222	Ū	50.00	100.3		FM
Vanadium	75-125	495.8983		3.4444	$\overline{\underline{v}}$	500.00	99.2		PM
Zinc	75-125	560.6350		322.7169		500.00	47.6	N	PM
Cyanide	75-125	88.0000		10.0000	Ū	100.00	88.0		C

mments:

FORM V (PART 1) - IN

ILM02.0

#### U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW--03A

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE919

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	С	Spike Added (SA)	%R	Q	М
Aluminum			_				-	-	NR
Antimony			-		_			-	NR NR NR
Arsenic			-		_			_	NF
Barium			-		_			_	NI
Beryllium			-		_			-	NF
Cadmium	<del></del>		-		_			_	NI
Calcium			_		_				NI
Chromium								_	NI
Cobalt					_			_	NI
Copper						<u></u>		_	NI
Iron			<u> </u>		_			_	NI
Lead			_		_			_	NI
Magnesium			_		_			_	NI
Manganese			_					<b> </b>	NI
Mercury			_					<b> </b>	NI NI
Nickel		ļ	_		_			-	NI
Potassium			_					-	
Selenium			_		_		ļ <del></del>	-	NI NI
Silver			1-					-	NI
Sodium			-					-	NI
Thallium			-		-			-	NI
Vanadium Zinc		861.12	-	290.45	-	580.0	98.4	1-	PI
Cyanide	<b> </b>	801.12	-	290.45	-	380.0	30.4	-	NI
Cyanitue			-		-		<del></del>	1-	
	i		۱	l	۱	1	l	<b>!</b>	١

Comments:

FORM V (PART 2) - IN

ILM02.0

**GOO160** 

6 DUPLICATES EPA SAMPLE NO.

SW--03D

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

SAS No.:

S

Case No.:

concluce. BILW

SDG No.: ANE919

Matrix (soil/water): WATER

% Solids for Sample: 0.0

Lab Code: 10142

Level (low/med): LOW

2 9

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

						,		
Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD -	Q	м
Aluminum		155.2569	B	95.5816	В	47.6		PM
Antimony		23.4444	<u></u>	23.4444	BUUU		1_1	PM
Arsenic		1.2222	<u></u>	1.2222	U			FM
Barium		23.8213	8 0 0	22.2078	B	7.0		PM
Beryllium		1.2222	<u>ש</u>	1.2222	<u>u</u>			PM PM
Cadmium		2.6667	Ū	2.6667	U			PM
Calcium		58404.2050		49857.7940		15.8		PM
Chromium		10.3333	ប្រាប់ខាងខ្លាំង	10.3333	ט			PM
Cobalt		7.1111	Ū	7.1111	Ū			PM
Copper		4.7567	B∣	4.8947	BBBBB	2.9	_	PM
Iron		70.0196	B	78.8322	B	11.8	_	PM
Lead		2.0111	В	1.1667	B	53.1	_	FM
Magnesium		5020.5137	В	4889.5050	B	2.6	_	PM
Manganese	16.7	22.3514	1 1	14.0231	B	45.8	_	PM CV
Mercury		0.2000	Ū	0.2000	שו		_	
Nickel		14.1111	U	17.2760	B B	200.0		PM
Potassium		728.6839	UBBBB B	757.5744	<u>B</u>	3.9	_	PM FM
Selenium		1.9556	В	1.5556	<u>ี้</u>	200.0	_	FM
Silver		2.6093	B	3.8006	B	37.2		PM
Sodium	5555.6	9467.0914	1 1	9962.8917	.]_[	5.1	_	PM
Thallium		1.2222	<del>นี</del>	1.2222	<u> </u>			FM
Vanadium		3.4444	<u> </u>	3.4444	<u></u>			PM
Zinc		322.7169	$ \Box $	125.1424	$\lfloor \lfloor \rfloor$	88.2	<u>*</u>	PM
Cyanide		10.0000	Ū	10.0000	<u> </u> <u>U</u>			C
							$\Pi$	l

#### METHOD BLANK MATRIX SPIKE AND DUPLICATE RESULTS

DATE RECEIVED:

REPORT DATE:

12/1/95

1/9/96

**ENVIROTEST LABORATORIES** 

LAB ID:

10142

CLIENT NAME: CLIENT ID: ANEPTEK SW--03

MATRIX:

AQUEOUS

RESULTS IN MG/L

						:	SAMPLE +				METHOD	
ANALYTE	RESULT	Q	DUPLICATE	Q	RPD	Q	SPIKE	SPIKE	%REC.	Q	BLANK	
ALKALINITY	82.80		84.80		2.4		185.80	100	103.0	)	2.0	U
AMMONIA	0.20	U	0.20	U	0.0		1.10	1.0	110.0	)	0.2	U
BOD	3.00	U	3.00	U	0.0				NF	l	1.0	U
BROMIDE	1.00	U	1.00	U	0.0		2.00	2.0	99.1		1.0 -	U
CHLORIDE	16.40		17.40		5.9		34.70	20	91.6	i	2.0	U
COD	11.90		15.90		28.8		51.60	50	91.3	1	2.0	U
HEXCHROME	0.01	U	0.01	U	0.0		1.90	0.02	Q5.	0	0.01	U
NO3-NO2	0.20	U	0.20	U	0.0		0.53	0.5	106.0		0.2	U
SULFATE	33.50		34.50		2.9		54.00	20	102.5	;	5.0	U
TOS	90.00		92.00		2.2				NE	t	4.0	
TKN	0.50	U	0.50	U	0.0		2.10	2.0	105.0	)	0.5	U
тос	3.94		3,85		2.1		23.23	20	96.9	i	0.5	U
PHENOLS	0.01	U	0.03	U	0.0		8.00	10.0	80.0	)	0.01	U

600162

Envirolest (2) Laboratories Inc.

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841 Lab Name: ENVIROTEST LABS MC. Contract: STEWART ANG

VBLKC4

b Code:10142

Case No.:#####

SDG No.:AC919

Lab File ID: V4494

Lab Sample ID: VBLKC4

D te Analyzed:12/08/95

Time Analyzed:1321

GC Column:DB-624

ID: .5 (mm)

Heated Purge: (Y/N) N

I strument ID:MSD

THIS METHOD BLANK / TEST TO THE FOLLOWING SAMPLES, MS, AND MSD:

01 MW04120195	02 19 55
01 MW04120195	02 19 . 55
02 MW12113095 SW01120195 SW02120195 SW03 SW03MS V4503 V4503 21	02 19 . 55
02 MW12113095	1.9 55
03 SW01120195 SW02120195 SW03 SW03MS V4497 V4503 SW03 SW03MS V4503 SW03 SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS SW03MS	55
04 SW02120195	55
05 SW03 V4497 165 06 SW03MS V4503 21	
06 SW03MS V4503 21	52
07 SW03MSD	
08 SW11120195 919-10 V4498 17	
09 TB-120195 V4502 20:	
10 VBSPK V4501 194	<del>15</del>
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DMMENTS:

### VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMDSTATIONOBENZENE

Lab Name: ENVIROTEST LABS INC. Contract: STEWART ANG

SDG No.:AC919

Lab File ID:BFB69

BFB Injection Date:12/05/95

Instrument ID:MSD

BFB Injection Time: 1048

GC Column:DB-624 ID: F3 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDAL LE CONTERIA	% RELATIVE ABUNDANCE
50 75 95 96 173 174 175 176	8.0 - 40.0% of mass.  30.0 - 66.0% of mass.  Base peak, 100% as a bundance  5.0 - 9.0% of mass.  Less than 2.0% of mass.  50.0 - 120.0% of mass.  4.0 - 9.0% of mass.  74  93.0 - 101.0% of mass.  75  5.0 - 9.0% of mass.	19.5 53.8 100.0 6.7 0.0( 0.0)1 69.8 5.0( 7.2)1 67.5( 96.7)1 4.3( 6.4)2
-	1-Value is & max 2-Value is & max	22 T10

THIS CHECK APPLIES TO THE TO LING SAMPLES, MS, AND MSD, BLANKS AND STANDARDS:

	EPA	CDIST.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	SAMPLE NO.	SAM	FING ID		========
	=======================================	######################################	VS835	12/05/95	0023
01	VSTD005	VSTDOC:	VS836	12/05/95	1305
02	VSTD010	VSTDC1.	VS837		1349
03	VSTD020	VSTD0:	VS838	12/05/95	1436
04	VSTD050	VSTD05		12/05/95	1519
05	VSTD100	VSTD10	VS839	12/05/95	
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#### VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID: VBLKC4

EnviroTest Lab No: VBLKC4

Client Name: Aneptek

Project Name: Stewart ANG Site 1

% Solid:

Matrix: Water

Sample Wt/Vol: 5ml

Date Collected:

Date Received:

Date Analyzed: 12/8/95

Report Date: 1/19/96

Level: Low

Detection

Column: DB-624

Lab File ID: V4494

Dilution Factor: 1

		Limit		Conc.
AS NO.	COMPOUND	ug/l		ug/l
<b>-</b>				
4-87-3	Chloromethane	10		U
4-83-9	Bromomethane	10		- U
75-01-4	Vinyl chloride	10		U
<b>■</b> 5-00-3	Chloroethane	10		Ū
5-09-2	Methylene chloride	10		U
67-64-1	Acetone	10		Ū
<b>25-15-0</b>	Carbon disulfide	10		U
75-35-4	1,1-Dichloroethene	10		υ
75-35-3	1,1-Dichloroethane	10		U
156-60-5	1,2-Dichloroethene, Total	10		υ
<b>5</b> 7-66-3	Chloroform	10		Ü
.07-06-2	1,2-Dichloroethane	10		Ü
78-93-3	2-Butanone	10	·	U
<b>1-55-6</b>	1,1,1-Trichloroethane	10	•	U
56-23-5	Carbon tetrachloride	10		U
108-05-4	Vinyl acetate	10.		U
_75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		U
10061-01-5		10	• • •	υ
79-01-6	Trichloroethene	10		U
<b>1</b> 71-43-2	Benzene	10		U
124-48-1	Dibromochloromethane	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
<b>-7</b> 9-00-5	1,1,2-Trichloroethane	10		U
75-25-2	Bromoform	10		Ŭ
108-10-1	4-Methyl-2-pentanone	10	چ چ د	ָ טַ
_591-78-6	2-Hexanone	10	•	Ŭ
79-34-5	1,1,2,2-Tetrachloroethane	10		<u>U</u>
127-18-4	Tetrachloroethene	10		<u>U</u>
<b>208-88-3</b>	Toluene	10		Ŭ
<b>1</b> 108-90-7	Chlorobenzene	10		ប
100-41-4	Ethylbenzene	10		Ŭ
100-42-5	Styrene	10		Ŭ
1330-20-7	Xylenes, Total	10 .	•	U
	•			

### VOLATILE ORGANICS ANALYSIS DATA SHEET

Client ID: VBLKC4

EnviroTest Lab No: VBLKC4

Client Name: Aneptek

Project Name: Stewart ANG Site 1

% Solid:

Matrix: Water

Sample Wt/Vol: 5ml

Date Collected: Date Received:

Date Analyzed: 12/8/95

Report Date: 1/19/96

Level: Low

Column: DB-624

Lab File ID: V4494

Dilution Factor: 1

-		Detection	 ARCHIOLOGICA CONTRACTOR AND AND AND AND AND AND AND AND AND AND
CAS NO.	COMPOUND	Detection Limit ug/l	 Conc. ug/l
106-03-4	1,2-Dibromoethane	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
74-95-3	Dibromomethane	10	- U
110-57-6	trans-1,4-dichloro-2-butene	10	U
74-88-4	Iodomethane	10	· · · · · · · · · · · · · · · · · · ·
630-20-6	1,1,1,2-Tetrachlorethane	10	U
96-18-4	1,2,3-Trichloropropane	10	Ü
75-69-4	Trichlorofluoromethane	10	Ū
107-13-1	Acrylonitrile	10	Ŭ
74-97-5	Bromochloromethane	10	Ŭ
541-73-1	1,3-Dichlorobenzene	10	, <u>U</u>
95-50-1	1,2-Dichlorobenzene	10	Ŭ
106-46-7	1,4-Dichlorobenzene	10	U

(\*\*\*

FORM I - VOA

030114

CC.

315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Envirolest Laboratories Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.
		-

ь	Name: ENVIROTEST	LABS	INC.	Contract:STEWART	ANG	_
					•	

VBLKC4

Atrix: (soil/water) WATER

SDG No.:AC919

Lab Sample ID: VBLKC4

mple wt/vol: 5.00 (g/ml) ML

Lab File ID: V4494

Level: (low/med) LOW

Date Received: / /

Moisture: not dec.

Date Analyzed:12/08/95

GC Column:DB-624

Imber TICs Found:

ID: 0.53 (mm)

Dilution Factor: 1.0

il Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=======================================		======	=======================================	======
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENVIROTEST LATS INC.

Contract:STEWART ANG

Lab Code:10142

Cas No :

SAS No.:#####

SDG No.:AC919

Lab File ID (Standard): VS345

Date Analyzed:12/08/95

Instrument ID:MSD

Time Analyzed:1128

GC Column:DB-624

(n : C : GI

Heated Purge:

(Y/N) N

1-									کن پی
		IS (FBZ)		. #	ISZ (CBZ) AREA #	RT #	AREA #	RT #	
01 02 03 MSSSSSMVTSSSSSMVTSSSSSSSSSSSSSSSSSSSSSS	12 HOUR STD UPPER LIMIT LOWER LIMIT LOWER LIMIT EPA SAMPLE NO. ===================================		= = = = = = = = = = = = = = = = = = = =		ISP (CB2) AREA # ====================================	RT # ====== 21.22 21.72 20.72 ====== 21.22 21.21 21.21 21.21 21.21 21.21 21.21 21.22 21.22 21.22 21.22	AREA #	RT #	
18 19 20 21 21			_ : _ : _ :						- - -

ISI (FG) = Fluorobeazene

IS3 (CBZ) = Chlorepensum : 1:

AREA UPPER LIMIT = +10.00 internal standard area AREA LOWER LIMIT = -5.00 internal standard area RT UPPER LIMIT = +0.50 internal standard RT RT LOWER LIMIT = -0.50 internal standard RT

# Column used to flag val : outside of QC limits with an asterisk.

\* Values outside of QC limit.

page 1 of 2

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# SAMPLE DATA SUMMARY PACKAGE

Aneptek Corp.
Natick, MA
Project: Stewart Ang Site 1
ETL Lab. #: 163610
Matrix: Water

1 of 1

EnviroTest Laboratories Inc. .

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory	Matrix	Date	Date Rec'd	Date	Date
Sample ID		Collected	at Lab	Extracted	Analyzed
163610-01	Water	7/29/96	7/29/96		8/7/96
163610-02	Water	7/29/96	7/29/96		8/7/96

Envirolest Laboratories Inc.

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

ED# 41V040

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# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Metals Sample ID Matrix Requested	at Lab	Analyzed
163610-01  Water  Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, T. Hardness, V, Zn  ALK, Br, Cn, Phenols NH3, Hg, SO4, TOC As, COD, BOD Cl, Pb, Se Color, Cr+6, NO3-NO2 Tl TDS, TKN	7/29/96	8/16/96 7/31/96 8/5/96 8/7/96 7/29/96 8/6/96 7/30/96 8/9/96 8/1/96

Envirollest Laboratories Inc. .

\*\*\*\*\*\*\*\*

#### CASE NARRATIVE Client: Aneptek Corp. Date: 9/25/96 ETL Lab No. 163610

#### **Volatiles**

#### Calibration

Due to poor purging efficiency the calibration levels of acrylonitrile, iodomethane, carbon disulfide, vinyl acetate and t-1,4-dichloro-2-butene are 10, 20, 50, 100 and 200 ug/l.

# Matrix Spike/Matrix Spike Duplicate(MS/MSD)

The matrix spike/matrix spike duplicate was not performed on a sample from laboratory number 163610. The MS/MSD submitted is from another laboratory number that was analyzed at the same time as laboratory number 163610.

#### Blank Spike

The percent recovery for 1,1-dichloroethene in the blank spike sample falls outside the established control limits. The percent recovery of 1,1-dichloroethene in the MS/MSD was within the established control limits.

### **Wet Chemistry**

#### Phenols

Due to insufficient sample volume, the following samples were distilled for total phenol using 200ml instead of 500ml.

FB-7-29-96 (Potable)D (163610-01D) FB-7-29-96 (Potable)S (163610-01S)

### Chemical Oxygen Demand

The percent recovery for COD in the matrix spike falls outside the EnviroTest established control limits.

#### **Total Dissolved Solids**

The matrix duplicate was not performed on a sample from laboratory number 163610. The matrix duplicate submitted is from another laboratory number that was analyzed at the same time as laboratory number 163610.

Envirolest Laboratories Inc. .

CASE NARRATIVE
Client: Aneptek Corp.
Date: 9/25/96
ETL Lab No. 163610
Page-2-

### **Inorganics**

### Matrix Spike

The predigestion spike recovery for thallium in sample number FB-7-29-96 (Potable)S (163610-01S) falls outside the established control limits. The data is qualified accordingly.

#### Cyanide

Due to insufficient sample volume, the following samples were distilled for total phenol using 250ml instead of 500ml.

FB-7-29-96 (Potable)D (163610-01D) FB-7-29-96 (Potable)S (163610-01S)

EnviroTest Laboratories Inc.

#### Volatile Organics Analysis Data Sheet Form I VOA

Client ID: FB-7-24-96

Date Collected: 29-JUL-96

ETL Sample Number: 163610-01

Date Received: 29-JUL-96

Client Name: ANEPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 07-AUG-96

% Solid: NA

Report Date: 25-SEP-96

4 50114. 141

Column: DB-624

Matrix: 2 GW/WW

Sample Wt/Vol: 5ml

Lab File Id: W2936

Level: LOW

Dilution Factor: 1.00

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/1	ug/l	Qualifier
74-87-3	Chloromethane	10		o i
74-83-9	Bromomethane	10 10		U
75-01-4	Vinyl chloride	10		· U
75-00-3	Chloroethane	10 10	er i er er	i di
75-09-2	Methylene chloride		T 44. 1	II
67-64-1	Acetone	10 10		11 .
75-15-0 75-35-4	Carbon disulfide 1,1-Dichloroethene	10		Ŭ
75-35-4 75-34-3	1,1-Dichloroethane	ĺŎ	4 47.	es e <b>ŭ</b> de Shek
73-34-3 540-59-0	1.2-Dichloroethene(total)	10		Ū
67×66÷3	Chloroform	10	. 68	
107 <b>-</b> 06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10		U
71-55-6	1.1.1-Trichloroethane	10		U
56-23-5	Carbon tetrachloride	10		U
108-05-4	Vinyl acetate	10	and the second	U
75-27-4	Bromodichloromethane	10	4. 431410	
78-87-5	1,2-Dichloropropane	10	19511	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l
10061-01-5	cis-1,3-Dichloropropene	10 10	1	1
79-01-6	Trichloroethene	10	an it salahata	<b>i</b> r 332 32
71-43-2	Benzene	10	3 35 H 14 C C ( \$450 44	11
124-48-1	Dibromochloromethane	10	34201	i di corre
10061-02-6 79-00-5	trans-1,3-Dichloropropene 1,1,2-trichloroethane	10	- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Ü
75-25-2	Bromoform	īĎ		· · · · · · · · · · · · · · · · · · ·
108-10-1	4-Methyl -2-pentanone	<b>10</b>		· U
591-78-6	2-Hexanone	10	- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14	U
79-34-5	1.1.2.2-Tetrachloroethane	10		U
	Tetrachloroethene	10	2	4 may 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
108-88-3	Toluene	10	1	J
108-90-7	Chlorobenzene	10		
100-41-4	Ethylbenzene	10		U
100+42+5	Styrene	10		J
1330-20-7	Xylenes, Total	10 10		J
95-50-1	1,2-Dichlorobenzene	10 10	REPORTED THE UNITED STREET	Ü
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106-46-7	1,4-Dichlorobenzene trans-1,4-dichloro-2-butene	10 10		il
110-57-6		10	ve 30070 / 130 <b>00000</b>	ŭ
74-88-4 630-20-6	Iodomethane 1,1,1,2-Tetrachloroethane	10	tala estata) III - sas estates san estate	Ũ
630-20-6 96-18-4	1,1,2,1etracino dechare 1,2,3-Trichloropropane	10		Ü
<del>90-10-4</del> 75-69-4	Trichlorofluoromethane	10		U

#### Volatile Organics Analysis Data Sheet Form I VOA 8240

Results are continued from the previous page for 163610-01

CAS NO.	Compound	ug/l	ug/l	Qualifier
107-13-1	Acrylonitrile	10		Ü
74-97-5	Bromochloromethane	10		U
106+03+4	1.2-Dibromoethane	10		U
96-12-8	1.2-Dibromo-3-Chloropro	pane 10		U
74-95-3	Dibromomethane	10		U

Envirolest Laboratories Inc.

#### 1E

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N	Э	•
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Lab	Name	ENVIROTEST	LABS	INC.
-----	------	------------	------	------

Contract: STEWART

FB-7-24

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AN610

Matrix: (soil/water) WATER

Lab Sample ID:163610-01

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: W2936

Level:

(low/med) LOW

Date Received: 7/29/96

% Moisture: not dec.

Date Analyzed: 8/07/96

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs Found:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	=======================================	======	==========	======
1.104-76-7	1-Hexanol, 2-ethyl-	31.44	7.	J.
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# Inorganics Analysis Data Sheet Form I - IN

Client Name: ANEPTEK

Project Name:

STEWART ANG SITE 1

ETL Sample Number: 163610-01

Client I.D.: FB-7-24-96

Matrix:

2 GW/WW

Date Collected: 29-JUL-96 Date Received: 29-JUL-96

Comments:

Alkalinity	44.4	MG/L	2320B	31-JUL-96
Aluminum	384	UG/L	200.7	16-AUG-96
Ammonia-Nitrogen	1.0 U	MG/L	4500 NH3 E	05+AUG+96
Antimony	23.2 U	UG/L	200.7	16-AUG-96
Arsenic	2.4 U	UG/L	206.2 5210-B	07-AUG-96 29-JUL-96
BOD	3.0 U	MG/L UG/L	200.7	16-AUG-96
Barium Beryllium	17.1 B 1.2 U	UG/L	200.7	16-AUG-96
Boron	9.2 B	ŬĞŹĹ	200.7	16-AUG-96
Bromide	1.0 U	ŇĠ/L	300	31-JUL-96
Cadmium	4.9 U	UG/L	200.7	16:AUG:96
Calcium	25700	UG/L	200.7	16-AUG-96
Chemical Oxygen Dem	iand <u>8</u> ,1_N	MG/L	410.2	07-AUG-96
Chlorides	21.5	MG/L	4500-CL B 200.7	06-AUG-96 16-AUG-96
Chromium Cobolt	10.6 U 6.3 U	UG/L UG/L	200.7	16-AUG-96
Cobalt Color	150	PT-C0	2120-B	30-JUL-96
Copper	35.7	UG/L	200.7	16-AUG-96
Cyanide, Total	10.0 U	UG/L	335.2	31-JUL-96
Hexavalent Chromium	0.01 U	MG/L	3500-CRD	30-JUL-96
Iron	2180	UG/L	200.7	16-AUG-96
Lead	2.9 B	UG/L	239.2	06-AUG-96
Magnesium	1300 B	UG/L UG/L	200.7 200.7	16-AUG-96 16-AUG-96
Manganese	36.7 0.2 U	UG/L	245.1	05-AUG-96
Mercury Nickel	18.0 U	UG/L	200.7	16-AUG-96
Nitrate-Nitrite	0.32	HG/L	4500-N03 F	30-JUL-96
Potassium	2150 B	UG/L	200.7	16-AUG-96
Selenium	2.2 U	UG/L	270.2	06-AUG-96
Silver	4.9 U	UG/L	200.7	16-AUG-96
Sodium	11800	UG/L	200.7 375.4	16-AUG-96 05-AUG-96
Sulfate	9.5 0.8 U W N	MG/L UG/L	279.2	09-AUG-96
Thallium Total Dissolved Sol		MG/L	160.1	01-AUG-96
Total Hardness	69.6	HG/L	200.7	16-AUG-96
Total Kjeldahl Nitr		MG/L	4500-NH3 H	01-AUG-96
		MG/L MG/L	5310÷B 420.1	05-AUG-96 31-JUL-96
Total Organic Carbo Total Phenols	0.01 U			

# Inorganics Analysis Data Sheet Form I - IN

Results are continued from the previous page for 163610-01

Analysis	Result	Units	Method	Analyzed	
Vanadium	7.9 U	UG/L	200.7	16-AUG-96	
Zinc	69.9	UG/L	200.7	16-AUG-96	

Remarks:

Envirolest Laboratories Inc.

# 

Client ID: TB-7-29-96

Date Collected: 29-JUL-96

ETL Sample Number: 163610-02

Date Received: 29-JUL-96

Client Name: ANAPTEK

Date Extracted:

Project Name: STEWART ANG SITE 1

Date Analyzed: 07-AUG-96

% Solid: NA

Report Date: 25-SEP-96

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: W2937

Level: LOW

Matrix: 2 GW/WW

Dilution Factor: 1.00

CAS NO.  74-87-3 74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0	Compound  Chloromethane Bromomethane Vinyl chloride Chloroethane	Detection Limit ug/l 10 10	Conc. ug/l	Data Qualifier
74-87-3 74-83-9 75-01-4 75-00-3 75-09-2 67-64-1	Chloromethane Bromomethane Vinyl chloride Chloroethane	ug/1 10 10	ug/l	
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1	Bromomethane Vinyl chloride Chloroethane	10		- 11
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1	Bromomethane Vinyl chloride Chloroethane	10		-25 St. March Matter (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997)
75-01-4 75-00-3 75-09-2 67-64-1	Chloroethane			U
75-09-2 67-64-1	Chloroethane			Ü
67-64-1		10	and a second designation of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	<u>U</u>
	Methylene chloride	10	1	j
/helhell	Acetone	10 10	N.C. PERAGOSSOS STRESSMAN, J. C. C.	U
75-35-4	Carbon disulfide 1.1-Dichloroethene	10 10		U.
75-35-4 75-34-3	1,1-Dichloroethane	10		υŬ
73-34-3 540-59-0	1,2-Dichloroethene(total)	10		Ŭ
67-66-3	Chloroform	10		U
107-06-2	1.2-Dichloroethane	10		U
78-93-3	2-Rutanone	10		Ŭ
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon tetrachioride	10		Ü
108-05-4	Vinyl acetate	10 10		Ü
75-27-4 78-87-5	Bromodichloromethane 1,2-Dichloropropane	10		Ü
78-87-5 10061-01-5	cis-1,3-Dichloropropene	10		Ű
79-01-6	Trichloroethene	10		II .
71-43-2	Benzene	10		Ŭ
124-48-1	Dibromochloromethane	10		U
10061-02-6	trans-1.3-Dichloropropene	10		U
79-00-5	1,1,2-trichloroethane	10	entra 1000000000000000000000000000000000000	U
75-25-2	Bromoform	10		Ų
108-10-1	4-Methyl-2-pentanone	10 10	* * 2003-10-00-00-00-00-00-00-00-00-00-00-00-00-	U U
591-78-6 79-34-5	2-Hexanone 1,1,2,2-Tetrachloroethane	10 10		U
79-34-5 127-18-4	Tetrachloroethene	10		::::::::::::::::::::::::::::::::::::::
108-88-3	Toluene	10	00000000.1000 <b>00</b> 00000000000000000000000	Ŭ
108-90-7	Chlorobenzene	ĨŎ		Ŭ
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		Ü
1330-20-7	Xylenes, Total	10	555 553653 <b>66666666</b> 6666666666666	U
95-50-1	1.2-Dichlorobenzene	10		U U
541-73- <u>1</u>	1,3-Dichlorobenzene	10 10		U
106-46-7	1,4-Dichlorobenzene 1,1,1,2-Tetrachloroethane	10 10		Ü
630-20-6	1,1,1,2-letrachloroethane Dibromomethane	10		0
74-95-3 74-88-4	Iodomethane	10		Ű
110-57-6	trans-1,4-dichloro-2-butene	10		Ü
96-12-8	1,2-Dibromo-3-Chloropropane	10		U
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#### Volatile Organics Analysis Data Sheet Form I VOA 8240

Results are continued from the previous page for 163610-02

CAS NO.	Compound	ug/l	ug/l	Qualifier	
96-18-4 75-69-4	Trichlorofluoromethane	10		U	
106-03-4 107-13-1 74-97-5	1,2:Dibromoethane Acrylonitrile Bromochloromethane	10		U	

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Envirolest 22 Laboratories Inc.

#### 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO
LIFE	Durie nii	TAC

TB	-7	-2	9	

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

ab Code:10142

Case No.:##### SAS No.:#####

SDG No.:AN610

(soil/water) WATER

Lab Sample ID:163610-02

ample wt/vol:

5.00 (g/ml) ML

Lab File ID: W2937

Level:

(low/med) LOW

Date Received: 7/29/96

Moisture: not dec.

Date Analyzed: 8/07/96

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

1.0

bil Extract Volume:0

umber TICs Found:

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

EnviroTest 🖽 Laboratories Inc.

MTV/UC PH.MS4

FPA NY049

# WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

SAS No.:#####

SDG No.:AN610

					- m	mom I
	EPA	SMC1	SMC2	SMC3	OTHER	TOT
	SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		OUT
	=========	=====	=====	=====	=====	===
01	FB-7-24	104	102_	106_		0
02	TB-7-29	104	102	104		0
03	VBLK126	102	100	102		0
04	VBSPK	100	102	104		0
05	ZZZZZMS	102	100	98		0
06	ZZZZZMSD	98	102	104		0
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QC LIMITS (88-110)SMC1 (TOL) = Toluene-d8 SMC2 (BFB) = Bromofluorobenzene (86-115)SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

- # Column to be used to flag recovery values
- \* Values outside of contract required QC limits

. . . . . . . .

D System Monitoring Compound diluted out

1 of 1 page

FORM II VOA-1

-----

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Envirolest 22	
Laboratories In	C.

3A WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: ENVIROTEST LABS INC.

Contract:STEWART

SAS No.:##### SDG No.:AN610

Matrix Spike - EPA Sample No.:

ZZZZZ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
	=======		=========	=====	=====
1-Dichloroethene	20.	0.	21.	105_	75-113
Benzene	20.	0.	20.	100	71-110
Trichloroethene	20.	0.	21.	105	80-118
bluene	20.	0.	21.	105	82-118
hlorobenzene	20.	0.	20.	100	74-108

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC L: RPD	MITS REC.
,1-Dichloroethene	20.	21.	105	0	14	75-113
Benzene	20.	20.	100	0	14	71-110
Trichloroethene	20.	$\frac{21.}{21.}$	105 105	0	$\frac{11}{13}$	80-118 82-118
enlorobenzene	20.	20.	100	0	13	74-108

# Column to be used to flag recovery and RPD values with an asterisk

Values outside of QC limits

0 out of 5 outside limits

Stake Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III VOA-1

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Envirolest

EPA NYN49

#### VOLATILE WATER BLANK SPIKE RECOVERY

Client Name: Aneptek Corp.

Lab Name: EnviroTest Laboratories, Inc.

ETL Sample No.: VBSPK

Client Sample ID.: VBSPK

Date of Analysis: 8/7/96

Instrument ID: 5970

	SPIKE	SAMPLE	BLKSPK	BLKSPK	QC
	ADDED	CONCENTRATION	CONCENTRATION	ક	LIMITS
COMPOUND	(ug/1)	(ug/l)	(ug/1)	REC. #	REC.
	======		=======================================	========	======
1,1-Dichloroethene	20.00	ן ש	23	115.0 #	75-113
Trichloroethene	20.00	י די	22	110.0	71-110
Benzene	20.00	Ū	21	105.0	80-118
Toluene	20.00	υ	22	110.0	82-118
Chlorobenzene	20.00	ប	21	105.0	74-108
					l1

# Column to be used to flag recovery values

FORM III VOA-1

Envirolest Laboratories Inc.

<sup>\*</sup> Values outside of EnviroTest established QC limits

#### ENVIROFORMS/INORGANIC CLP

6 DUPLICATES SAMPLE NO.

72996 D

Lab Name: ENVIROTEST LABORATORIES Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE610

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

	,				- 1		ı 1 '	
	Control				- 1			
Analyte	Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
					l	1	<b> </b>	
Aluminum	222.2	383.6367		407.7943	1_1	6.1		PM
Antimony		23.2222	ᄪ	23.2222	힌			PM FM
Arsenic		2.4444	ᄞ	2.4444	Ū			FM
Barium		17.1294	ומומומומ	18.3014	BU	6.6	_	PM
Beryllium		1.2222	U	1.2222	밀		_	PM
Cadmium		4.8889	U	4.8889	$ \underline{\underline{\sigma}} $		_	PM
Calcium	5555.6	25695.2770	1 1	26126.8690	_	1.7	_	PM
Chromium	11.1	10.5556	<u>ប</u>	11.9701	_	200.0	_	PM
Cobalt		6.3333	<u>U</u>	6.3333	፱		_	PM
Copper	27.8	35.7021	_	36.9844	_	3.5	11_	PM
Iron		2177.8264	_	2237.5320	_	2.7	11_	PM
Lead		2.8889	<u>B</u>	1.7333	B B	50.0	_	FM
Magnesium		1303.6998	B B	1347.1172	<u>B</u>	3.3	11-	PM
Manganese	16.7	36.7274	1 1	37.0859	1_1	1.0	_	PM
Mercury		0.2000	ᄞ	0.2000			-	CV
Nickel		18.0000	ושו	18.0000	U		_	PM
Potassium		2145.4570	वावाबावावा	2224.4144	שושו שומו שומו	3.6	_	PM
Selenium		2.2222	민	2.2222	U		11-	FM
Silver		4.8889	U	4.8889	Ŭ	,	_	PM
Sodium	5555.6	11832.1800	1 1	12074.9770	1_1	2.0	l I_	PM
Thallium		0.7778	ᄞ	0.7778	<u></u>		11_	FM PM
Vanadium		7.8889	<u>u</u>	7.8889	민		11_	PM
Zinc	22.2	69.9200	1 1	77.6638		10.5	_	PM C
Cyanide		10.0000	<u>U</u> B	20.0000	፱		11_	
Boron		9.1966	<u>  B</u>	8.1463	B	12.1	11_	PM

#### ENVIROFORMS/INORGANIC CLP

#### 5A SPIKE SAMPLE RECOVERY

SAMPLE NO.

72996 S

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE610

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): UG/L

	Control					••			
1	Limit	Spiked Sample	l	Sample		Spike		_	
Analyte	%R	Result (SSR)	C	Result (SR)	C	Added (SA)	%R	Q	M
			_		_			_	
Aluminum	75-125	2207.2909	_	383.6367	_	2000.00	91.2	_	PM
Antimony	75-125	455.5384	_	23.2222	U	500.00	91.1	_	PM
Arsenic	75-125	40.8556	_	2.4444	<u>U</u>	40.00	102.1		FM
Barium	75-125	1858.4737	_	17.1294	B	2000.00	92.1	_	PM
Beryllium	75-125	46.4610	_	1.2222	Ū	50.00	92.9	_	PM
Cadmium	75-125	43.8903	_	4.8889	Ū	50.00	87.8	_	PM
Calcium			_		_			_	NR
Chromium	75-125	189.1857		10.5556	U	200.00	94.6	-	PM
Cobalt	75-125	469.7462		6.3333	U	500.00	93.9		PM
Copper	75-125	263.6332		35.7021	_	250.00	91.2	_	PM
Iron	75-125	3040.5037		2177.8264	_	1000.00	86.3	_	PM
Lead	75-125	19.7000	_	2.8889	B	20.00	84.1		FM
Magnesium			_		_				NR
Manganese	75-125	502.6951	_	36.7274	_	500.00	93.2	_	PM
Mercury	75-125	1.0600		0.2000	Ū	1.00	106.0	_	CV
Nickel	75-125	488.3607		18.0000	Ū	500.00	97.7		PM
Potassium					_				NR
Selenium	75-125	8.1000		2.2222			81.0	<b> </b> _	FM
Silver	75-125	43.9851	_	4.8889	U	50.00	88.0	_	PM
Sodium					_			_	NR
Thallium	75-125	28.3111		0.7778	Ū	50.00	56.6	N	FM
Vanadium	75-125	478.6697		7.8889	Ū	500.00	95.7	<b> </b> _	PM
Zinc	75-125	559.7713	_	69.9200		500.00	98.0	_	PM
Cyanide	75-125	94.0000	_	10.0000	<u> </u>	100.00	94.0	l_	C
Boron	75-125	910.1319	_	9.1966	<b>I</b> _	1000.00	90.1	l	PM

Comments:



#### METHOD BLANK MATRIX SPIKE AND DUPLICATE RESULTS

**ENVIROTEST LABORATORIES** 

LAB ID:

10142

CLIENT NAME: CLIENT ID:

ANEPTEK FB-7-29-96

MATRIX:

WATER

DATE PREPARED:

DATE RECEIVED:

7/29/96

REPORT DATE:

8/19/96

RESULTS IN MG/L

						SAMPLE +		1	METHOD		
ANALYTE	RESULT	Q	DUPLICATE	Q	RPD	SPIKE	SPIKE	%REC.	BLANK	_	
ALKALINITY	44.40		46.50		0.05	139.40	100	95.0	2.0	U	
AMMONIA	1.00	U	1.00	U	0.00	8.00	7.50	93.8	1.0	U	
BROMIDE	1.00	U	1.00	U	0.00	2.08	2.00	104.0	1.0	U	
BOD	3.00	U	3.00	U	0.00				1.0	U	
CHLORIDE	21.50		22.50		0.05	42.10	20	103.0	2.0	U	
COD ***	44,70		48.80		0.09	44.70	50	81.3	4.0	U	
HEXCHROME	0.01	U	0.01	U	0.00	0.021	0.02	105.0	0.01	U	
NO3-NO2	0.32		0.31		0.03	0.86	0.50	108.0	0.20	U	•
SULFATE	9.50		10.00		0.05	20.50	10	110.0	5.0	U	12/94
PHENOLS	0.01	U	0.03	ับ	0.00	0.008	0.01	80.0	0.01	U	alx lan
TDS **	132.00		126.00		0.05				2.0		
TKN	0.50	U	0.50	U	0.00	2.20	2.00	110.0	0.5	U	
тос	1.76	-	1.76	-	0.00	22.38	20.00	103.1	0.5	U	

....-- -----

Envirolest Laboratories Inc. .

<sup>\*\*</sup> batch related qc

<sup>\*\*\*</sup> ms/msd

# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK126

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

Lab Code:10142

Case No.:##### SAS No.:#####

SDG No.:AN610

Lab File ID:W2932

Lab Sample ID: VBLK126

Date Analyzed: 8/07/96

Time Analyzed:1320

GC Column:DB-624

ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: MS2 5970 q/w/4/

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

1	EPA	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	=======================================	=======================================	=========	========
01	FB-7-24	163610-01	W2936	1642
02	TB-7-29	163610-02	W2937	1732
03	VBSPK	VBSPK	W2939	1909
04	ZZZZZMS	ZZZZZMS	W2940	1958
05	ZZZZZMSD	ZZZZZMSD	W2942	2135
06				
07				
80				
09				
10				
11				
12				]
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26 27				
28				
28 29				
30				
3 U			l	l l

**COMMENTS:** 

1 of page

FORM IV VOA

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

# **VOLATILE ORGANICS DATA RESULTS FORM**

Client ID: VBLK126

EnviroTest Lab No: VBLK126

Client Name: Aneptek

Project Name: Stewart ANG Site 1

% Šolid:

Matrix: Water Sample Wt/Vol: 5ml

Level: Low

Date Collected: Date Received: Date Extracted:

Date Analyzed: 8/7/96 Report Date: 9/25/96 Column: DB-624

Lab File ID: W2932.D

Dilution Factor: 1

		Detection	Como
CACNO	COMPOUND	Limit ug/l	Conc. ug/l
CAS NO	COMPOUND	<u> </u>	<u>~</u>
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	Ŭ
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-35-4	1,1-Dichloroethene	10	. U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene, total	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	<u>U</u>
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ü
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
<b>591-78-</b> 6	2-Hexanone	10	U
79-34-5	1,1,2,2-Tetrachloroethane	` 10	U
127-18-4	Tetrachloroethene	10	<u>U</u>
108-88-3	Toluene	10	Ū
108-90-7	Chlorobenzene	10	Ü
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylenes, Total	10	U

FORM I - VOA

Envirolest 2 Laboratories Inc. . 315 Fullerion Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

#### **VOLATILE ORGANICS DATA RESULTS FORM**

Client ID: VBLK126

EnviroTest Lab No: VBLK126

Client Name: Aneptek Project Name: Stewart ANG Site 1

% Solid:

Matrix: Water Sample Wt/Vol: 5ml

Level: Low

Date Collected:

Date Received:

Date Extracted:

Date Analyzed: 8/7/96

Report Date: 9/25/96 Column: DB-624

Lab File ID: W2932.D

Dilution Factor: 1

CAS NO	COMPOUND	Detection Limit ug/l	Conc. ug/l
CAS NO	COMI COND	<u> </u>	
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	$\mathbf{U}$
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
75-69-4	Trichlorofluoromethane	10	U
107-13-1	Acrylonitrile	10	U
74-97-5	Bromochloromethane	10	U
106-03-4	1,2-Dibromoethane	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	Ŭ
74-95-3	Dibromomethane	10	U
110-57-6	trans-1,4-dichloro-2-butene	10	U
74-88-4	Iodomethane	10	U

FORM I - VOA

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#### 1E

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE	МО
------------	----

VBLK126	
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Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

ab Code:10142

Case No.:##### SAS No.:#####

SDG No.:AN610

(soil/water) WATER

Lab Sample ID: VBLK126

ample wt/vol: 5.00 (g/ml) ML

Lab File ID: W2932

Level:

(low/med) LOW

Date Received: / /

Moisture: not dec.

Date Analyzed: 8/07/96

1.0

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

oil Extract Volume:0

umber TICs Found:

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.71-23-8	1-Propanol	14.97	9.	
2.				
3. 4.				
5				
6				
8				
9				
11.				
12				
14. 15.				
16.				
17				<del> </del>
19.				
20				
_ 22.				
23				
25.				
26.				
28.		·		
29. 30.				

FORM I VOA-TIC

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Envirolest 2 Laboratories Inc.

#### ENVIROFORMS/INORGANIC CLP

#### 3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE610

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

	Initial								_	- 1	
	Calib.	- 1	Conti		ing Calil		ation	ŧ	Prepa-		
	Blank	- 1		B.	lank (ug/1	Ĺ)			ration		
Analyte	(ug/L)	C	1	С	2	С	3	C	Blank	c	M
	£									1	
Aluminum		ᄞ	37.3	U	<u>37.3</u>	U B	64.6	<u>B</u>	41.444	U	PM PM FM
Antimony		В	-23.6	$\overline{\mathbf{B}}$	-30.8	<u>B</u>	20.9	ਹ	-38.405	B U	PM
Arsenic		ਹ	2.2	$\overline{\underline{u}}$	2.2	U	2.2	<u>บี</u>	2.444	빞	FM
Barium		Ū	1.3	$\overline{\mathbf{U}}$	1.3	Ü	1.3	Ŭ	1.444	Ū	PM
Beryllium		B	1.5	$\overline{\underline{\mathbf{B}}}$	1.1	$\overline{\underline{\mathbf{U}}}$	1.1	<u></u>	1.222	Ū	PM PM PM PM PM PM PM PM PM FM
Cadmium		Ū	4.4	Ū	4.4	Ū	4.4	Ū	4.889	U	PM
Calcium		Ū	15.6	ū	17.3	B	15.6	Ū	17.333		PM
Chromium		Ū	9.5	Ū	9.5	<u><u>u</u></u>	9.5	Ū	10.556	Ū	PM
Cobalt		В	5.7	$\overline{\underline{u}}$	5.7	<u><u></u></u>	5.7	ਧ	6.333	፱	PM
Copper		Ū	2.6	$\overline{\underline{\mathbf{u}}}$	2.6	$\overline{\underline{\upsilon}}$	2.6	Ū	2.889	U	PM
Iron		<u></u> <u></u>	10.3	B	5.7	$\overline{\underline{v}}$	5.9	B U	6.333	Ū	PM
Lead		ਧ	0.9	<u>บี</u>	0.9	<u>Ū</u>	0.9	ᄞ	1.000	ਹ	FM
Magnesium		<u></u>	26.2	$\overline{\underline{\mathbf{U}}}$	26.2	$\overline{\underline{\mathbf{u}}}$	26.2	ਹ	29.111	<u>ប</u>	PM
Manganese		ਧ	1.0	$\overline{\underline{\mathtt{U}}}$	1.0	$\overline{\underline{\upsilon}}$	1.0	Ū	1.111		PM
Mercury	1	U	0.2	$\overline{\mathbf{U}}$	0.2	$\overline{\underline{v}}$		_	0.200	<u></u>	PM PM CV PM
Nickel		ប	16.2	$\overline{\mathbf{U}}$	16.2	$\overline{\underline{u}}$	16.2	Ū	18.000	Ū	PM
Potassium		Ū	52.2	$\overline{\overline{U}}$	52.2	$\overline{\underline{u}}$	52.2	<u>บี</u>	58.000	ਧ	PM FM
Selenium		ਹ	2.0	Ū	2.0	Ū	2.0	<u>u</u>	2.000	ਧ	FM
Silver		힌	4.4	<u>ש</u>	4.4	Ū	4.4	Ū	4.889	<u></u>	PM
Sodium		Ū	49.4	Ū	49.4	$\overline{\underline{u}}$	49.4	Ū	54.889	<u></u>	PM
Thallium		ַע	0.7	Ū	0.7	ប្		_	0.778	$\overline{\mathbf{U}}$	FM
Vanadium		<u>ש</u>	7.1	Ū	7.1	<u>บ</u>	7.1	ਹ	7.889	$ \overline{\underline{v}} $	PM
Zinc		<u></u>	3.0	ש	3.0	$\overline{\overline{\mathbf{U}}}$	3.0	Ū	3.333	<del>ป</del> ี	PM
Cyanide		<u></u>	10.0	บิ		_		_	10.000	민	PM FM PM PM C
Boron	2.6	힌	2.6	<u></u>	2.6	<u></u>	2.6	Ū	2.889	힌	PM

FORM III - IN

Envirolest Laboratories Inc. .

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

#### ENVIROFORMS/INORGANIC CLP

3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: STEWART

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE610

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

	Initial Calib. Blank	•			ing Calik Lank (ug/I 2		ation 3	С	Prepa- ration Blank	С	м
Analyte	(ug/L)	С	1	C	2	C	3		Drain	4	14
Aluminum Antimony		E		_		_					
Arsenic		_	2.2	Ū	2.2	<u>U</u>	2.2	<u></u>		_	FM
Barium		_		_		_		_		_	
Beryllium		_		_		_		_			
Cadmium		_		_		_		_		_	1—1
Calcium		_		_				_		_	_
Chromium		$ \_ $				_		_		_	
Cobalt		_	<u> </u>	_		_		_		_	
Copper		_				_		_		-	
Iron		_		_				-		_	
Lead		_	0.9	<u>U</u>		_				-	FM
Magnesium		_		_		_		_			1
Manganese		I_		_		_		_		_	
Mercury		_		_				_		_	
Nickel				_		_		_		_	_
Potassium		_		_		-		_		_	
Selenium		_	2.0	<u></u>	2.0	U	2.0	ਧ			FM
Silver		_		_		_		_		_	
Sodium		_				_		_			1
Thallium				_		_		_		_	1
Vanadium		1_1		<b> </b> _		_		$ \_ $		$ \_ $	
Zinc								_			
Cyanide				_		_	<u> </u>	_			_
Boron						_		_		$\lfloor _{ot}  floor$	1

FORM III - IN

Envirollest

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

CALUDING ON WEY

EPA NYN49

#### 8A

#### VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

Lab Code: 10142

Case No.:#####

SAS No.:####

SDG No.:AN610

Lab File ID (Standard): WS428

Date Analyzed: 8/07/96

Instrument ID: MS2 5970 9/36/94

Time Analyzed:1023

GC Column:DB-624

0.53 (mm) ID:

Heated Purge: (Y/N) N

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		IS1 (F32)		IS3(C32)		IS ( )	1
		AREA #	RT #	AREA #	RT #	AREA #	RT #
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	UPPER LIMIT	6369826	19.28	4928012	26.16		
	LOWER LIMIT	1592457	18.28	1232003	25.16		
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01	VBLK126	3047897	<u> 18.79</u>	2276687	25.66		_
02	FB-7-24	2695557	18.77	2047707	25.65		
03	TB-7-29	2831459	18.77	2088826	25.65		
04	VBSPK	2896957	18.77	2275317	25.66	1 1	!
05	ZZZZZMS	3316401	18.76	2549233	25.65		
06	ZZZZZMSD	3073364	18.76	2429197	25.65		
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ISI (FBZ) = Fluorobenzene

IS

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside of QC limits with an asterisk.

\* Values outside of QC limits.

1 of page

Laboratories Inc.

FORM VIII VOA

3/90

FPA NY049

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Envirolest 2

##VCENO11 +n+ +n

CTDOHS PH-0054 MINCO TOERT



#### SAMPLE DATA SUMMARY PACKAGE

Aneptek Corp.
Natick, MA
Project: 94160.34
ETL Lab. #: 164318
Matrix: Water

1 of 1

EnviroTest Laboratories Inc. \_

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory	Matrix	Date	Date Rec'd	Date	Date
Sample ID		Collected	at Lab	Extracted	Analyzed
164318-01	Water	8/14/96	8/14/96		8/20/96
164318-02	Water	8/14/96	8/14/96		8/20/96
164318-03	Water	8/14/96	8/14/96		8/20/96
164318-04	Water	8/14/96	8/14/96		8/21/96

Envirolest Laboratories Inc.

## NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
164318-01	Water	Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, T. Hardness, TKN, V, Zn	8/14/96	8/20/96
		ALK, Cn, SO4, Phenols NH3, Br, Cl, Color, Cr+6, Hg, NO3-NO2, TDS,		8/16/96 8/15/96
·	·	As BOD COD, TOC Pb Se, Tl		8/23/96 8/14/96 8/19/96 8/26/96 8/22/96
164318-02	Water	Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, T. Hardness, TKN, V, Zn	8/14/96	8/20/96
		ALK, Cn, SO4, Phenols NH3, Br, Cl, Color, Cr+6, Hg, NO3-NO2, TDS, As BOD COD, TOC Pb Se, Tl		8/16/96 8/15/96 8/23/96 8/14/96 8/19/96 8/26/96 8/22/96
164318-03	Water	Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, T. Hardness, TKN, V, Zn	8/14/96	8/20/96
		ALK, Cn, SO4, Phenols NH3, Br, Cl, Color,	,	8/16/96 8/15/96
		Cr+6, Hg, NO3-NO2, TDS, As BOD COD, TOC Pb Se, T1		8/23/96 8/14/96 8/19/96 8/26/96 8/22/96

Envirolest Laboratories Inc.

EPA NY049

# CASE NARRATIVE Client: Aneptek Corp. Date: 9/26/96 ETL Lab No. 164318

### **Volatiles**

### Calibration

Due to poor purging efficiency the calibration levels of acrylonitrile, iodomethane, carbon disulfide, vinyl acetate and t-1,4-dichloro-2-butene are 10, 20, 50, 100 and 200 ug/l.

### Matrix Spike/Matrix Spike Duplicate(MS/MSD)

The percent recovery for chlorobenzene in sample number MW-14-081496MSD (164318-01MSD) falls outside the established control limits.

### Blank Spike

The percent recovery for 1,1-dichloroethene and chlorobenzene in the blank spike sample falls outside the established control limits.

### Wet Chemistry

### Chemical Oxygen Demand

The %RPD for COD falls outside the established limits. The data is qualified accordingly.

### **Inorganics**

#### Matrix Spike

The predigestion spike recovery for lead, zinc in sample number MW-14-081496S (164318-01S) falls outside the established control limits. The data is qualified accordingly.

### Matrix Duplicate

The %RPD for for lead, calcium and zinc in sample number MW-14-081496D (164318-01D) falls outside the established control limits. The data is qualified accordingly.

### Post Digestion Spike

A post digestion spike for zinc was performed on sample number MW-14-081496P (164318-01P) due to predigestion spike recovery outside the established control limits. The post digestion spike recovery was 104.6%.

Envirolest Laboratories Inc.

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CTDOHS PH-M54

EPA NY049

#### 1E

EPA SAMPLE NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Contract: STEWART

MW-14

Lab Code:10142

Case No.:##### SAS No.:#####

SDG No.:AN318

Matrix:

(soil/water) WATER

Lab Sample ID:164318-01

Sample wt/vol:

5.00 (g/ml) ML

0

Lab File ID: W3059

tevel:

(low/med) LOW

ab Name: ENVIROTEST LABS INC.

Date Received: 8/14/96

& Moisture: not dec.

Date Analyzed: 8/20/96

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Boil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

Number TICs Found:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		15.01	5.	J
1.75-19-4	Cyclopropane	15.01	<u> </u>	
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FORM I VOA-TIC

3/90

EPA NY049

Client ID: MW-14-081496

Date Collected: 14-AUG-96

ETL Sample Number: 164318-01

Date Received: 14-AUG-96

Client Name: ANEPTEK CORP.

Date Extracted:

Project Name: 94160.34

Date Analyzed: 20-AUG-96

% Solid: NA

Report Date: 25-SEP-96

Column: DB-624

Matrix: 2 GW/WW

Lab File Id: W3059.D

Sample Wt/Vol: 5ml

Level: LOW

Dilution Factor: 1.00

		Detection	Conc.	Data
CAS NO	Compound	Limit ug/l	ug/1	Qualifier
74-87-3	Ch1oromethane	10		U
74-83-9	Bromomethane	10		Ü
75-01-4	Vinyl chloride	10		Ü
75-00-3	Chloroethane	10 10	888998888888888888888888888888888888888	U
75-09-2 67-64-1	Methylene chloride Acetone	10	7	J
75×15×0	Carbon disulfide	10	<b>,</b>	Ü
75-35-4	1,1-Dichloroethene	10	800003.00000000000000000000000000000000	IJ
75-34-3	1,1-Dichloroethane	10		ON DOMESTIC
540-59-0	1,2-Dichloroethene(total)	10		U .
67+66+3	Chloroform	10	2	
107-06-2	1,2-Dichloroethane	10		U
78-93-3 71-55-6	2-Butanone	10 10		Ū II
/1-55-6	1,1,1-Trichloroethane Carbon tetrachloride	10	000000000000000000000000000000000000000	Ŭ
56-23-5 108-05-4	Vinyl acetate	10		Ŭ
75-27- <b>4</b>	Bromodichloromethane	īŏ		SS ÜL - SS SS
78-87-5	1,2-Dichloropropane	10		Ü
10061-01-5	cis+1.3-Dichloropropene	10		Ü
79-01-6	Trichloroethene	10	500000000000000000000000000000000000000	U
71-43-2	Benzene	10		
124-48-1 10061-02-6	Dibromochloromethane	10 10		U U
79-00-5	trans:1,3 Dichloropropene 1.1.2-trichloroethane	10		Ü
75-25-2	Bromoform	10		Ď
108-10-1	4-Methyl-2-pentanone	10		Ŭ
591-78-6	2-Hexanone	10		Ü
79-34-5	1,1,2,2-Tetrachloroethane	10		U
127+18-4	<u>Tetrachloroethene</u>	10		wa y
108-88-3	Toluene	10 10	UNITED SAMPLES OF CONTROLS	
108-90-7 100-41-4	Ch1orobenzene Ethy1benzene	10 10		
100-41-4	Styrene	10		Ŭ
1330-20-7	Xylenes, Total	10	0000	U
95-50-1	1.2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		Ų
110-57-6	trans-1,4-dichloro-2-butene	10	********	U H
74-88-4	Iodomethane	10 10		Ü
630-20-6 96-18-4	1,1,1,2-Tetrachloroethane 1,2,3-Trichloropropane	10		U
75-69-4	Trichlorofluoromethane	10		II

Envirolest Laboratories Inc.

ED4 1 NO40

# Inorganics Analysis Data Sheet Form I - IN

Client Name: ANEPTEK CORP.

Project Name:

94160.34

ETL Sample Number: 164318-01

Client I.D.: MW-14-081496

Matrix: 2 GW/WW

Date Collected: 14-AUG-96

Date Received: 14-AUG-96

Comments:

Analysis	Result	Units	Method	Analyzed
Alkalimity	154	HG/L	2320B	16-AUG-96
Aluminum	196 B	UG/L	200.7	20-AUG-96
Ammonia*Nitrogen	1.0 U	MG/L	4500 NH3E	15+AUG+96
Antimony	23.2 U	UG/L	200.7	20-AUG-96
Arsenic	2.4 U	UG/L	206.2	23-AUG-96
BOD	3.0 U	MG/L	5210-B	14-AUG-96
Barium	13.8 B	UG/L	200.7	20-AUG-96
Beryllium	1.2 U	UG/L	200.7	20-AUG-96
Boron	41.8 B	UG/L	200.7	20-AUG-96
Bromide	1.0 U	MG/L	300	15-AUG-96
Cadmium	4.9 U	UG/L	200.7	20-AUG-96
Calcium	55600 *	UG/L	200.7	20-AUG-96
Chemical Oxygen Demand	7.5 *	MG/L	410.2	19-AUG-96
Chlorides -	4.9	MG/L	4500-CL B	15-AUG-96
Chromium	10.6 U	UG/L	200.7	20-AUG-96
Cobalt	6.3 U	UG/L	200.7	20-AUG-96
Color	10	PT-CO	2120-B	15-AUG-96
Copper	10 2.9 B	UG/L	200.7	20-AUG-96
Cyanide, Total	10 U	UG/L	335.2	16-AUG-96
Hexavalent Chromium	0.01 U	MG/L	3500 CRP	15-AUG-96
Iron	274	UG/L	200.7	20-AUG-96
Lead	7.0 * N	UG/L	239.2	26-AUG-96
Magnesium	9360	UG/L	200.7	20-AUG-96
Manganese	182	UG/L	200.7	20-AUG-96
Mercury	0.2 U	UG/L	245.1	15-AUG-96
Nickel	18.0 U	UG/L	200.7	20-AUG-96
Nitrate-Nitrite	0.2 U	MG/L	4500-N03-F	15-AUG-96
Potassium	1390 B	UG/L	200.7	20-AUG-96
Sel <del>e</del> nium	2.2 U	UG/L	270.2	22-AUG-96
Silver	4.9 U	UG/L	200.7	20-AUG-96
Sodium	18000	UG/L	200.7	20-AUG-96
Sulfate	19	MG/L	375.4	16-AUG-96
Thallium	1,2 B	UG/L	279.2 160.1	22-AUG-96
Total Dissolved Solids	180	MG/L	160.1	15-AUG-96 20-AUG-96
Total Hardness	177	MG/L	200.7	
Total Kjeldahl Nitrogen	0.5 U	MG/L	4500 NH3 H	20-AUG-96
Total Organic Carbon	1.7	HG/L	5310-B	19-AUG-96
Total Phenols	0.01 U	MG/L	420.1	16-AUG-96

Results are continued from the previous page for 164318-01

CAS NO.	Compound	ug/l	ug/l	Qualifier
107-13-1	Acrylonitrile	10		U
74-97-5	Bromochloromethane	10		Ü
106+03+4	1.2-Dibromoethane	10		U
96-12-8	1 2-Dibromo-3-Chloroprop	ane 10		Ü
74-95-3	Dibromomethane	10		U



# Inorganics Analysis Data Sheet Form I - IN

Results are continued from the previous page for 164318-01

Analysis	Result	Units	Method	Anal yzed
Vanadium	7.9 U	UG/L	200.7	20-AUG-96
Zinc	277 * N	UG/L	200.7	20-AUG-96

Remarks:

Envirolest Laboratories Inc.

\*\*\*\*\*\*\*

EDA KNOAG

# 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS


Lab	Name	ENVIROTEST	LABS	INC.

Contract: STEWART

MW-15

EPA SAMPLE NO.

Lab Code: 10142

Case No.:#####

SAS No.:#####

SDG No.:AN318

Matrix:

(soil/water) WATER

Lab Sample ID:164318-02

Sample wt/vol:

(q/ml) ML 5.00

Lab File ID: W3060

Level:

(low/med) LOW

Date Received: 8/14/96

% Moisture: not dec.

Date Analyzed: 8/20/96

GC Column:DB-624

Number TICs Found:

ID: 0.53 (mm)

Dilution Factor:

1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

3/90

EPA NY049

EnviroTest 🔠
Laboratories Inc.

Client ID: MW-15-081496

Date Collected: 14-AUG-96

ETL Sample Number: 164318-02

Date Received: 14-AUG-96

Client Name: ANEPTEK CORP.

Date Extracted:

Project Name: 94160.34

Date Analyzed: 20-AUG-96

% Solid: NA

Report Date: 25-SEP-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: W3060.D

Level: LOW

Dilution Factor: 1.00

		Detection Limit	Conc.	Data
CAS NO.	Compound	ug/1	ug/l	Qualifier
4-87-3	Ch1oromethane	10		ń
74-83-9	Bromomethane	10		<b>U</b>
75-01-4	Vinyl chloride	10		, v
75-00-3	Chloroethane	10	Kussa 100000000000000000000000000000000000	U II
75-09-2	Methylene chloride	10		4,500,000 cm and an arrangement of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac
67-64-1	Acetone	10	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	U H
75-15-0	Carbon disulfide	10		0.000,666, 1.06.000,067,000,000,000,000,000,000
75-35-4	1,1-Dichloroethene	10	andere i neo dinterno e e e e e e e e de cina di cina e	U Sabukan
75-34-3 540-59-0	1,1-Dichloroethane 1,2-Dichloroethene(total)	10		
540-59-0	1,2-Dichloroethene(total)	10	otoo isuouseessa 1. millisis 1900 sa	U avi (i. alba i espekalari
67-66-3	Chloroform	10		vi i i i i i i i i i i i i i i i i i i
107-06-2	1,2-Dichloroethane	10	0.505.05.05.000000000000000000000000000	บั
78-93-3	2-Butanone	10		U U
71-55-6	1,1,1-Trichloroethane	10	10.000 2.403000000 U 10.03 <b>004</b> 00440	Ü
56-23-5	Carbon tetrachloride	10 10		11
108-05-4	Vinyl acetatė	10	88791 - 28891 1147 - 00088 186 36S	i i
75-27-4	Bromodichloromethane	10 10		ii
78-87-5	1,2-Dichloropropane	10	(2012): 14. (1000): 2007 (1. 1000): 2007 (2008): 2007	Ŭ
10061-01-5	cis-1,3-Dichloropropene	10 10		Ü
79-01-6	Trichloroethene	10		Ü
71-43-2	Benzene	10		Ü
124-48-1	Dibromochloromethane	10		Ü
10061-02-6	trans-1,3-Dichloropropene	10 10		Ü
79-00-5	1,1,2-trichloroethane	10	\$600-1800-1800-1800-1800-1800-1800-1800-1	ŭ .
75-25-2	Bromoform	10		ii
108-10-1	4-Methyl-2-pentanone	10	MO CHURCOST AR CONTRACTO	Ŭ
591-78-6	2-Hexanone 1.1.2.2-Tetrachloroethane	10		II
79-34-5	Tetrachloroethene	10	90.540 A 46000000 a A <b>600760</b> 46	· · · · · · · · · · · · · · · · · · ·
127-18-4		10		II
108-88-3	Toluene Chlorobenzene	10		Ů
108-90-7		10	Property the conference of the response of	Ü
100-41-4	Ethylbenzene Styrene	10		za za d <b>u</b> nga gazar
100-42-5	Xylenes, Total	10	9000 ta 1.1 ta 1.6 ta 1.5 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1.1 ta 1	Ŭ
1330-20-7	1,2-Dichlorobenzene	10	24Y. 34444 (* 3444)	Ŭ
95-50-1 541-73-1	1,3-Dichlorobenzene	10	391,10 Lin 1990,001 as a line in the end where i	t)
341-73-1	1,4-Dichlorobenzene	10 10		za o aŭ a a a a a
106-46-7	1,1,1,2-Tetrachloroethane	10	gag gaaga, caan aa maan ka maan ka k	Ü
630-20-6	1,1,1,2-Tech actifor decidate 1,2,3-Trichloropropane	10		Ŭ
96-18-4 75-69-4	Trichlorofluoromethane	10	(500.004.00000000000000000 0 1100000000	Ŭ
	Acrylonitrile	10		Ü
107-13-1 74-97-5	Bromochloromethane	10	ergen ser i generaligen in der et i de te 100 000 000	Ü
/4-3/-3	DI UNIOCITI DI DINECTIATIE	10		=

EPA NY049

# Inorganics Analysis Data Sheet Form I - IN

Client Name: ANEPTEK CORP.

Project Name:

94160.34

ETL Sample Number: 164318-02

Client I.D.: MW-15-081496

Matrix:

2 GW/WW

Date Collected: 14-AUG-96

Date Received: 14-AUG-96

Comments:

Analysis	Result	Units	Method	Analyzed
Alkalinity	38,6	NG/L	2320B	16-AUG-96
Aluminum	9420	UG/L	200.7	20-AUG-96
Ammonia-Nitrogen	1.0 U 23.2 U	MG/L	4500 NH3E 200.7	15-AUG-96 20-AUG-96
Antimony	23.2 U	UG/L UG/L	200.7 206.2	20-AUG-96 23-AUG-96
Arsenic	2.7 B			
BOD	3.0 U	MG/L	5210-B 200.7	14-AUG-96
Barium	72.9 B	UG/L UG/L	200.7 200.7	20 - AUG - 96 20 - AUG - 96
Beryllium	1.2 U	UG/L	200.7 200.7	20-AUG-96 20-AUG-96
Boron	23.1 B	UG/L NG/L	200.7 300	20-AUG-96
Bromide	1.0 U	MG/L	200.7	20-AUG-96
Cadmium	4.9 U 32300 *	UG/L UG/L	200.7 200.7	20-AUG-96
Calcium	32300 *	MG/L	410.2	19-AUG-96
Chemical Oxygen Demand	33.8 *	MG/L	4500-CL B	15 AUC 06
Chlorides	14.7	MG/L UG/L	200.7	15-AUG-96 20-AUG-96
Chromium	11.9	UG/L	200.7	20-AUG-96
Cobalt	12.5 B	PT-CO	2120-B	15-AUG-96
Color	15 25.7 B	UG/L	200.7	20-AUG-96
Copper	25.7 B	UG/L	335.2	16-AUG-96
Cyanide, Total	10 U	MG/L	3500 CRP	15-AUG-96
Hexavalent Chromium	0.01 U 19300	MG/L UG/L	200.7	20-AUG-96
Iron		UG/L	239.2	26-AUG-96
Lead	13.1 * N	UG/L	200.7	20-AUG-96
Magnesium	6290	UG/L	200.7	20-AUG-96
Manganese	916	UG/L	245.1	15-AUG-96
Mercury	0.2 U 21.1 B	UG/L	243.1 200.7	20-AUG-96
Nickel	21.1 B	UG/L MG/L	4500-N03-F	15-AUG-96
Nitrate-Nitrite	0.53	UG/L	200.7	20-AUG-96
Potassium	2700 B	UG/L UG/L	200.7 270.2	20-AUG-96
Selenium	2.2 U W 4.9 U	UG/L	270.2 200.7	20-AUG-96
Silver		UG/L UG/L	200.7 200.7	20-AUG-96
Sodium	14900	MG/L	375.4	16-AUG-96
Sulfate	22 1.3 B	MG/L UG/L	375.4 279.2	22+AUG+96
Thallium	1.3 B	UG/L MG/L	2/9.2 160.1	15-AUG-96
Total Dissolved Solids	114	MG/L	200.7	20-AUG-96
Total Hardness	107	MG/L MG/L	4500 NH3 H	20-AUG-96
Total Kjeldahl Nitrogen	1.2	MG/L MG/L	4500 Nn3 n 5310∗B	20-AUG-96
Total Organic Carbon	1.7	MG/L MG/L	3310-b 420.1	16-AUG-96
Total Phenols	0.01 U	MG/L	42U.1	TO-MOG-30

Results are continued from the previous page for 164318-02

<b>CAS NO.</b>	Compound	ug/l	ug/1	Qualifier	
106-03-4 96-12-8 74-95-3 110-57-6 74-99-4	1,2-Dibromo-3-Chloropro Dibromomethane trans-1 4-dichloro-2-b	pane 10		U U U	



EPA NYD49

# Inorganics Analysis Data Sheet Form I - IN

Results are continued from the previous page for 164318-02

Analysis	Result	Units	Method	Analyzed
Vanadium	25.8 B	UG/L	200.7	20-AUG-96
Zinc	419 * N	UG/L	200.7	20-AUG-96

Remarks:

EnviroTest Laboratories Inc.

#### 1E

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-25
-------

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

Lab Code:10142

Case No.:##### SAS No.:#####

SDG No.:AN318

Matrix: (soil/water) WATER

Lab Sample ID:164318-03

Sample wt/vol:

5.00

Lab File ID: W3061

Level:

Date Received: 8/14/96

% Moisture: not dec.

(low/med) LOW

Date Analyzed: 8/20/96

GC Column:DB-624

ID: 0.53 (mm)

(g/ml) ML

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

Number TICs Found:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

1.	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
3.		=======================================	======		======
3.	1.				
4.         5.         6.         7.         8.         9.         10.         11.         12.         13.         14.         15.         16.         17.         18.         19.         20.         21.         22.         23.         24.         25.         26.         27.         28.         29.	4 •				
55       —         6.       —         7       —         8       —         9       —         10       —         11       —         12       —         13       —         14       —         15       —         16       —         17       —         18       —         19       —         20       —         21       —         22       —         23       —         24       —         25       —         26       —         27       —         28       —         29       —	3.				
5.       6.         7.       8.         9.       9.         10.       9.         11.       9.         13.       9.         14.       9.         15.       9.         16.       9.         17.       9.         18.       9.         19.       9.         20.       9.         21.       9.         22.       9.         23.       9.         24.       9.         25.       9.         26.       9.         27.       9.         28.       9.	4.				
7.       8.       9.         10.       11.       12.         13.       14.       15.         16.       17.       18.         19.       20.       21.         22.       23.       24.         25.       26.       27.         28.       29.       29.	5.				
7.       8.         9.	0				
9 .	7.	·			
9. 10.	0.				•
11.	9.				
11.	10				
13.		\			
13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	12.				
14.         15.         16.         17.         18.         19.         20.         21.         22.         23.         24.         25.         26.         27.         28.         29.	13.				
16.       17.       18.       19.       20.       21.       22.       23.       24.       25.       26.       27.       28.       29.	14				
16.       17.       18.       19.       20.       21.       22.       23.       24.       25.       26.       27.       28.       29.	15.				
18.         19.         20.         21.         22.         23.         24.         25.         26.         27.         28.         29.	16.				
19.	±/•				
20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	18.				
20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	19.				
21. 22. 23. 24. 25. 26. 27. 28. 29.	20.				
22. 23. 24. 25. 26. 27. 28. 29.	21.				
24. 25. 26. 27. 28. 29.	22.				
24. 25. 26. 27. 28. 29.	23.				
26. 27. 28. 29.	24.				
26. 27. 28. 29.	43.				
27. 28. 29.	26.				
29.	27.				
49•	1 40.				
30	49.				
	30				

FORM I VOA-TIC

3/90

Client ID: MW-25-081496

Date Collected: 14-AUG-96

ETL Sample Number: 164318-03

Date Received: 14-AUG-96

Client Name: ANEPTEK CORP.

Date Extracted:

Project Name: 94160.34

Date Analyzed: 20-AUG-96

% Solid: NA

Report Date: 25-SEP-96

Matrix: 2 GW/WW

Column: DB-624

Sample Wt/Vol: 5ml

Lab File Id: W3061.D

Level: LOW

Dilution Factor: 1.00

		Detection	Conc.	Data
CAS NO.	Compound	Limit ug/l	ug/1	Qualifier
74-87-3	Chloromethane	10		u v
74-83-9	Bromomethane	10		U
75-01-4	Vinyl chloride	10		Ser United Services
75-00-3	Chloroethane	10	Section of the	u u v <b>U</b> sa ş@igulea.
75-09-2	Methylene chloride	10	Mg. Corp. Park and the	e in University
67-64-1	Acetone Carbon disulfide	10 10	at the fater better	ŭ
75-15-0 75-35-4	1,1-Dichloroethene	10	general service en en en en en en en en en en en en en	ŭ
75-35-4 75-34-3	1.1-Dichloroethane	ĨŎ		Ü
540-59-0	1,2-Dichloroethene(total)	10		U
67+66+3	Chloroform			
107-06-2	1,2-Dichloroethane	10		
78-93-3	2-Butanone		9-18-18-10 (1996) 14-49 cm - 1936 	,772 ji ji <b>kU</b> ≪baja debi estel H
71-55-6	1,1,1-Trichloroethane	10 10	A De Ce <b>rcio (</b> Nuero Distib	**************************************
56-23-5 108-05-4	Carbon tetrachloride Vinyl acetate	10	ige vigita, propinsionalistici (il si tienver conence	Ü
75-27-4	Bromodichloromethane	ĪĎ		v Ú
78-87-5	1.2-Dichloropropane	10		Ü
10061-01-5	cis-1.3-Dichloropropene	10		Ü
79-01-6	Trichloroethene	10		U O D O
71-43-2	Benzene	10		(3.55 1 - 1 <b>0</b> 537), 2465, 34   6. 11
124-48-1	Dibromochloromethane	10 10		a Valen
10061-02-6 79-00-5	trans-1.3-Dichloropropene 1.1.2-trichloroethane	10	promise discussioned severe account and ac-	Ŭ
79-00-5 75-25-2	Bromoform	ĨĎ		Ū,
108-10-1	4-Methyl-2-pentanone	10		U
591-78-6	2-Hexanone	10		Marin Salah
79-34-5	1.1.2.2-Tetrachloroethane	10	exinos en proposaciones, promi il cum del 174.111	U Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Salar Sa
127-18-4	<u>T</u> etrachloroethene	10 10		an University
108-88-3	Toluene	10	31:51 - L. P. W. (1941) - (1941) - (1941)	
108-90-7 100-41-4	Chlorobenzene Ethylbenzene	10	[111] [14] 14 W. 56464466 W. W. 1. C	Ŭ
100-41-4	Styrene	10		U V
1330-20-7	Xylenes, Total	10		U
95-50-1	1.2-Dichlorobenzene	10		y U 🚿 🖰
541-73-1	1,3-Dichlorobenzene	10	U - 61, 71 + 1996001 + 1997 - 1 - 1	u er Usiadisi≇
106-46-7	1,4-Dichlorobenzene	10 10		an to the second
630-20-6	1,1,1,2-Tetrachloroethane			ŭ 📆
96-18-4 75-69-4	1,2,3-Trichloropropane Trichlorofluoromethane	10 10	eservo historia e e e e e e e e e e e e e e e e e e e	U
/5-69-4 107-13-1	Acrylonitrile	ΪŎ		ŭ Sala
74-97-5	Bromochloromethane	10		U

Enviro	oTest 🖺	3
Labor	ratories	Inc.

FPA NY049

Results are continued from the previous page for 164318-03

CAS NO.	-	*	Compound	ug/l	ug/l	Qualifier
 106-03-4			1,2-Dibromoethane	10		ñ
96-12-8			1,2-Dibromo-3-Chl	oropropane 10 10		U
110-57-6			trans-1.4-dichlor	o-2-butene 10 10		U V



# Inorganics Analysis Data Sheet Form I - IN

Client Name: ANEPTEK CORP.

Project Name: 94160.34

ETL Sample Number: 164318-03

Client I.D.: MW-25-081496

Date Collected: 14-AUG-96

Matrix: 2 GW/WW

Date Received: 14-AUG-96

Comments:

Analysis	Result	Units	Method	Anal yzed
Alkalinity	40,6	NG/L	2320B	16-AUG-96
Aluminum	9760	UG/L	200.7	20-AUG-96
Ammonia-Nitrogen	1.0 U	MG/L	4500 NH3E	15+AUG+96
Antimony	23.2 U	UG/L	200.7	20-AUG-96
Arsenic	3.4 B	0G/L	206.2	23-AUG-96
BOD	3.0 U	MG/L	5210-B	14-AUG-96
Barium	81,2 B	UG/L	200.7	20-AUG-96 20-AUG-96
Beryllium	1.2 U	UG/L	200.7	20-AUG-96
Boron	25.6 B	UG/L	200.7	20-AUG-96
Bromide	1.0 U	MG/L	300	15-AUG-96
Cadmium	4.9 U	UG/L	200.7	20+AUG+96
Calcium	30600 *	UG/L	200.7	20-AUG-96
Chemical Oxygen Demand	18.8 *	MG/L	410.2	19-AUG-96
Chlorides	15.7	MG/L	4500-CL B	15-AUG-96
Chromium	13.7	UG/L	200.7	20-AUG-96
Cobalt	10:1 B	UG/L	200.7 2120-B	20-AUG-96 15-AUG-96
Color	15	PT-CO UG/L	2120-B 200.7	20-AUG-96
Copper	28.3	UG/L	335.2	16-AUG-96
Cyanide, Total	10 U 0.01 U	MG/L	3500 CRP	15-AUG-96
Hexavalent Chromium	19300	UG/L	200.7	20-AUG-96
Iron Lead	19300 13.8 * N	UG/L	239.2	26-AUG-96
Lead Magnesium	6200	UG/L	200.7	20-AUG-96
	870	UG/L	200.7	20-AUG-96
Manganese Mercury	0.3	ŬĠŹĹ	245.1	15-AUG-96
Nickel	25.8 B	ŬĞ/L	200.7	20-AUG-96
Nitrate-Nitrite	0.59	MG/L	4500-N03-F	15-AUG-96
Potassium	0.59 2850 B	UG/L	200.7	20-AUG-96
Selenium	2.2 U W	ŪG/L	270.2	22-AUG-96
Silver	4.9 ป	UG/L	200.7	20-AUG-96
Sodium	14900	UG/L	200.7	20-AUG-96
Sulfate	22	MG/L	375.4	16-AUG-96
Thallium	0.8 U	UG/L	279.2	22-AUG-96
Total Dissolved Solids	116	MG/L	160.1	15-AUG-96
Total Hardness	102	MG/L	200.7	20-AUG-96
Total Kjeldahl Nitrogen	0.5 U	MG/L	4500 NH3 H	20-AUG-96
Total Organic Carbon	5.1	MG/L	5310-B	19-AUG-96
Total Phenols	0.01 U	MG/L	420.1	16-AUG-96



# Inorganics Analysis Data Sheet Form I - IN

Results are continued from the previous page for 164318-03

Analysis	Result	Units	Method	Analyzed
Vanadium	26.9 B		200.7	20-AUG-96
Zinc	350 * N		200.7	20-AUG-96

Remarks:

EnviroTest 🖽 Laboratories Inc.

Client ID: TB-08-14-96 Date Collected: 14-AUG-96

ETL Sample Number: 164318-04 Date Received: 14-AUG-96

Client Name: ANEPTEK CORP. Date Extracted:

Project Name: 94160.34 Date Analyzed: 21-AUG-96

X Solid: NA Report Date: 25-SEP-96

Matrix: 2 GW/WW Column: DB-624

Sample Wt/Vol: 5ml Lab File Id: W3071.D

Level: LOW Dilution Factor: 1.00

		Detection	Conc.	Data
CAS NO.	Compound	Limit ug/l	ug/l	Qualifier
 74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10 10	scopulita (Appellanti III)	U U
75·01·4	Vinyl chloride Chloroethane	10 10		
75-00-3 75-09-2	Methylene chloride	10	1	in de alles
67-64-1	Acetone	10		U
75+15+0	Carbon disulfide	10		ņ
75-35-4	1.1-Dichloroethene	10 10	98.5497864 No. 11.039644 No. 10.	υ 
75-34-3 540-59-0	1.1-Dichloroethane 1.2-Dichloroethene(total)	10	Karamani Budhara a Pibbina di Sala Tan	Ü
67-66-3	Chloroform	10	n kaliba jiya ke	Ü
107-06-2	1,2-Dichloroethane	10	pri si revenuencia di mili organica di contra	U
78-93-3	2-Butanone	10 10		U U
71-55-6 56- <b>23</b> -5	1,1,1-Trichloroethane Carbon tetrachloride	10		Ü
108-05-4	Vinvl acetate	10	southern versions, black the attractor is consistent	U
75-27-4	Bromodichloromethane	10		ń
78-87 <i>-</i> 5	1,2-Dichloropropane cis+1,3-Dichloropropene	10 10	Millionidadadada III kudadada a Febra	
10061-01-5 79-01-6	Cis*1.3*Dichioropropene Trichloroethene	10		Ü
71-43-2	Benzene	10		Ŭ
124-48-1	Dibromochloromethane	10		U
10061-02-6	trans-1,3-Dichloropropene 1,1,2-trichloroethane	10		U U
79-00-5 75-25-2	1,1,2-trichloroethane Bromoform	10 10		Ü
108-10-1	4-Methyl-2-pentanone	10	e ha beataleach, siù abhain. I i lith	Ü
591-78-6	2-Hexanone	10	nniski sia di	U
79-34-5	1,1,2,2-Tetrachloroethane	10 10	den autresate de la lance attentación.	U
127-18-4 108-88-3	Tetrachloroethene Toluene	10 10		U
108-90-7	Chlorobenzene	10		Ů
100-41-4	Ethy1benzene	10		U
100-42-5	Styrene	10		Ų
1330-20-7	Xylenes, Total 1,2-Dichlorobenzene	10 10	ta wasan ja	ับ
95-50-1 541-73-1	1,3-Dichlorobenzene	10	Distributed to the control of	U
106+46-7	1.4-Dichlorobenzene	10		U
75-69-4	Trichlorofluoromethane	10	Tur talk Shaker 1 - 1 A. Jan 12	U
107-13-1	Acrylonitrile Bromochloromethane	10 10		U II
74-97-5 106-03-4	1.2.Dibromoethane	10		Ŭ
96-12-8	1,2-Dibromo-3-Chloropropane	$\overline{10}$		U
<del></del> -	· · ·			

EnviroTest Laboratories Inc.

Results are continued from the previous page for 164318-04

CAS NO.	Compound	ug/1	ug/l	Qualifier
74-95-3 110-57-6	trans-1.4-dichloro-2-bu	tene 10		U
630-20-6	1 1 1 2-Tetrachloroetha	ne 10		U

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#### 1E

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-08-14

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

Lab Code: 10142

Case No.:#####

SAS No.:#####

SDG No.:AN318

Matrix: (soil/water) WATER

Lab Sample ID:164318-04

Sample wt/vol:

(g/ml) ML 5.00

Lab File ID: W3071

Level:

(low/med) LOW

Date Received: 8/14/96

% Moisture: not dec.

Date Analyzed: 8/21/96

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

1.0

Soil Extract Volume: 0

Number TICs Found:

(uL)

Soil Aliquot Volume: 0

(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NU	MBER	COMPOUND NAME	RT	EST. CONC.	Q
=======	===== ==	=======================================	======	==========	======
1					1
1					
2					l
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<b>4</b>	1				
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FORM I VOA-TIC

3/90

#### 2A WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

ab Name: ENVIROTEST LABS INC.

Contract: STEWART

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AN318

	EPA	SMC1	SMC2	SMC3	OTHER	TOT
	SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		OUT
	==========	=====	=====	=====	=====	===
01	MW-14	104	100	104		0
02	MW-14MS	104	102	114		0
03	MW-14MSD	104	104	114		0
04	MW-15	104	102	106		0
05	MW-25	106	102	$\frac{110}{112}$		<del>     </del>
06	TB-08-14	110 102	100	$\frac{112}{104}$		$\left  \frac{0}{0} \right $
07	VBLK136	102	100	$\frac{104}{114}$		<del></del>
08 09	VBLK140 VBSPK	102	102	108	<del></del>	<del>   </del>
10	VBSPA				l	
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25 25						<del></del>
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```
QC LIMITS
                                     (88-110)
SMC1 (TOL) = Toluene-d8
                                     (86-115)
SMC2 (BFB) = Bromofluorobenzene
SMC3 (DCE) = 1,2-Dichloroethane-d4
                                    (76-114)
```

- # Column to be used to flag recovery values
- \* Values outside of contract required QC limits
- D System Monitoring Compound diluted out

1 of 1 page

FORM II VOA-1

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

Envirolest 🖽 Laboratories Inc.

### 3A WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROTEST LABS INC.

Contract: STEWART

Lab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AN318

Matrix Spike - EPA Sample No.:

MW-14

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
=======================================	=======	==========	==========	=====	=====
1,1-Dichloroethene	20.	0.	21.	105	<u>75-113</u>
Benzene	20.	0.	20.	100	71-110
Trichloroethene	20.	0.	20.	100	80-118
Toluene	20.	0.	20.	100	82-118
Chlorobenzene	20.	0.	20.	100	74-108
				l	l

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	<b>~</b> ~ · · ·	MITS REC.
	=======	22.	110	=====	14	75-113
1,1-Dichloroethene Benzene	$\frac{20.}{20.}$	22.	110	10	14	71-110
Trichloroethene	20.	22.	110	10	11	80-118
Toluene Chlorobenzene	$\frac{20.}{20.}$	22.	$\frac{110}{110*}$	$\frac{10}{10}$	$\frac{13}{13}$	82-118 74-108
Culolopeusene						

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

0 out of

Spike Recovery:

5 outside limits 1 out of 10 outside limits

**COMMENTS:** 

FORM III VOA-1

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

EnviroTest Laboratories Inc.

### VOLATILE WATER BLANK SPIKE RECOVERY

Client Name: Aneptek Corp.

Lab Name: EnviroTest Laboratories, Inc.

ETL Sample No.: VBSPK

Client Sample ID.: VBSPK

Date of Analysis: 8/20/96

Instrument ID: 5970

	SPIKE	SAMPLE	BLKSPK	BLKSPK	QC
· , v.	ADDED	CONCENTRATION	CONCENTRATION	ક	LIMITS
COMPOUND	(ug/1)	(ug/l)	(ug/1)	REC. #	REC.
=======================================	======	=========	=======================================	=======	======
1,1-Dichloroethene	20.00	σ	23	115.0 #	75-113
Trichloroethene	20.00	. <b>U</b>	22	110.0	71-110
Benzene	20.00	υ	22	110.0	80-118
Toluene	20.00	υ	21	105.0	82-118
Chlorobenzene	20.00	υ	22	110.0 #	74-108
					ll

FORM III VOA-1

<sup>#</sup> Column to be used to flag recovery values

<sup>\*</sup> Values outside of EnviroTest established QC limits

### ENVIROFORMS/INORGANIC CLP

### 5A SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW--14S

Lab Name: ENVIROTEST LABORATORIES

Contract: 94160134

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE318

Matrix (soil/water): WATER

% Solids for Sample: 0.

Level (low/med): LOW

Concentration Units (ug/L or mg/kg dry weight): UG/L

1	T							-
	Control Limit	Spiked Sample	Sample		Spike			
Analyte	%R	Result (SSR) C	Result (SR)	С	Added (SA)	%R	Q	M
Aluminum	75-125	1976.8583	196.0970	В	2000.00	89.0		<u>PM</u>
Antimony	75-125	438.3114	23.2222	Ū	500.00	87.7		PM
Arsenic	75-125	38.4556	2.4444	$\overline{\mathbf{U}}$	40.00	96.1	_	FM
Barium	75-125	1859.8370	13.7998	BU	2000.00	92.3	_	PM
Beryllium	75-125	48.8048	1.2222		50.00	97.6	_	PM
Cadmium	75-125	44.4449	4.8889	ับ	50.00	88.9		PM
Calcium							_	NR
Chromium	75-125	191.9628	10.5556	ַ	200.00	96.0		PM
Cobalt	75-125	471.9554	6.3333	$\overline{\mathbf{U}}$	500.00	94.4	_	PM
Copper	75-125	232.0071	2.9400	$\overline{\mathbf{B}}$	250.00	91.6	_	PM
Iron	75-125	1214.0261	273.5626		1000.00	94.0	_	PM
Lead	75-125	19.6333	6.9556		20.00	63.4	N	FM
Magnesium		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		_			_	NR
Manganese	75-125	639.6002	182.4117		500.00	91.4	_	PM
Mercury	75-125	1.1500	0.2000	<u>ש</u>	1.00	115.0		CV
Nickel	75-125	485.7496	18.0000	ប	500.00	97.1		PM
Potassium		·						NR
Selenium	75-125	7.6444	2.2222	<u>u</u>	10.00	76.4	_	FM
Silver	75-125	39.8711	4.8889	Ū	50.00	79.7	_	PM
Sodium							_	NR
Thallium	75-125	58.2444	1.2222	В	50.00	114.0	_	FM
Vanadium	75-125	483.1642	7.8889	<u>บ</u>	500.00	96.6	_	PM
Zinc	75-125	566.3914	276.8347		500.00	57.9	N	PM
Cyanide	75-125	92.0000	10.0000	U	100.00	92.0	_	<u>c</u>
Boron	75-125	959.1266	41.7678	_	1000.00	91.7	_	PM

Comments:

FORM V (PART 1) - IN

Envirolest Laboratories Inc.

### ENVIROFORMS/INORGANIC CLP

### 5B POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW--14A

Lab Name: ENVIROTEST LABORATORIES Contract: 94160134

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE318

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)		Spike Added (SA)	%R	Q	М
Aluminum	· · · · · · · · · · · · · · · · · · ·		Т		_				NR
Antimony			-		_				NR NR
Arsenic			-						NR
Barium			-		_				NR
Beryllium			-		_				NR
Cadmium			-		_				NR NR NR NR
Calcium			-		_				NR
Chromium			-		_				NR
Cobalt			-					-	NR
Copper			-		_			Γ	NR
Iron	·		-		_			_	NR
Lead	<del></del>		-		_			-	NR
Magnesium	<u> </u>		-		_			Ι_	NR
Manganese			-					-	NR
Mercury	·		-		_			-	NR
Nickel			-				·	-	NR
Potassium			-					-	NR
Selenium			-		_			-	NR
Silver			-					-	NR
Sodium					_			-	NR
Thallium	.		-		-	l		-	NR NR NR NR NR NR NR NR NR NR NR NR NR N
Vanadium	-		-		-			-	NR
Zinc	.	772.28	1-	249.15	-	500.0	104.6		PM
		112.20	-		-			-	NR
Cyanide	-		-		-			-	NR
Boron	l .	1	1		l	i	l	ı	1

omments:

FORM V (PART 2) - IN

EnviroTest .... Laboratories Inc. \_

N INFP 73507

11/CDOH 10142

CTDOHS PH-0054

Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

EPA NY049

### ENVIROFORMS/INORGANIC CLP

### 6 **DUPLICATES**

SAMPLE NO.

MW--14D

Lab Name: ENVIROTEST LABORATORIES

Contract: 94160134

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE318

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

1			- 1	1	- 1	1 1	1 !	
Analyte .	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	м
Aluminum Antimony Arsenic Barium		196.0970 23.2222 2.4444 13.7998	BIUIBIUIDI	112.2354 23.2222 2.4444 12.4260	BUUDBU	10.5	-  -  -	PM PM FM PM
Beryllium Cadmium		1.2222 4.8889	<u>च</u>	1.2222 4.8889	<u>u</u>			PM PM PM
Calcium Chromium		55584.9690 10.5556	ᆔ	43593.5910 10.5556 6.3333	<u></u>	24.2	<u>*</u>  -	PM PM PM
Cobalt Copper Iron	111.1	2.9400 273.5626	Ŭ B	2.8889 197.2267	힐	200.0	-	PM PM
Lead Magnesium	3.3	6.9556 9359.8722		14.0444 8753.1781		67.5	*	FM PM
Manganese Mercury		182.4117 0.2000 18.0000	<u>u</u>	173.4842 0.2000 18.0000	핕	5.0	-	CV PM
Nickel Potassium Selenium		1391.3081 2.2222	ם שושושוט שוטומ	1191.4076 2.2222	<u>U</u> B	15.5		PM CV PM PM FM FM
Silver Sodium	5555.6	4.8889 17985.8470	-	4.8889 16374.0440	<u>บ</u> บ	9.4	-	PM PM EM
Thallium Vanadium Zinc	22.2	1.2222 7.8889 276.8347	<u>B</u> <u>U</u>	0.7778 7.8889 95.0559	<u>ש</u>	97.8	  -  *	PM FM PM PM C
Cyanide Boron		10.0000 41.7678	Ū	10.0000 38.3612	<u></u>	8.5		C PM

FORM VI - IN

### METHOD BLANK MATRIX SPIKE AND DUPLICATE RESULTS

**ENVIROTEST LABORATORIES** 

LAB ID:

**RESULTS IN MG/L** 

10142

CLIENT NAME: CLIENT ID:

**ANEPTEK** MW-14-081496

MATRIX:

WATER

DATE PREPARED:

DATE RECEIVED: REPORT DATE:

8/14/96

8/30/96

						SAMPLE +		1	METHOD	
ANALYTE	RESULT	Q	DUPLICATE	Q	RPD	SPIKE	SPIKE	%REC.	BLANK	-
ALKALINITY	154.00		154.00		0.00	255.80	100	101.8	2.0	U
AMMONIA	1.00	U	1.00	U	0.00	7.72	8.00	96.6	1.0	U
BROMIDE	1.00	Ū	1.00	U	0.00	2.12	2.00	106.2	1.0	υ
BOD	3.00	Ū	3.00	U	0.00				1.0	U
CHLORIDE	4.90		3.90		22.73	25.40	20	102.5	2.0	U
COD	7.50		11.30		40.43	52.50	50	97.7	4.0	U
HEXCHROME	0.01	U	0.01	U	0.00	0.020	0.02	100.0	0.01	U
NO3-NO2	0.20	U	0.20	U	0.00	0.84	0.80	105.0	0.20	U
SULFATE	19.00		19.00		0.00	29.50	10	105.0	5.0	U
PHENOLS	0.01	U	0.01	U	0.00	0.008	0.01	80.0	0.01	U
TDS	180.00		192.00		6.45				2.0	
TKN	0.50	U	0.50	U	0.00	2.10	2.00	105.0	0.5	U
TOC	1.72		1.72		0.20	19.97	20.00	91.3	0.5	U

EnviroTest 🔛 Laboratories Inc.

## VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK136

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

Lab Code:10142

Case No.:##### SAS No.:#####

SDG No.:AN318

Lab File ID:W3054

Lab Sample ID: VBLK136

Date Analyzed: 8/20/96

Time Analyzed:1649

GC Column:DB-624

0.53 (mm) ID:

Heated Purge: (Y/N) N

Instrument ID:MS2 5970 9/20/9/

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	SAMPLE NO.			========
Λ1	MW-14	164318-01	W3059	1739
01	MW-14	164318-02	W3060	1828
02	MW-15	164318-03	W3061	1917
03	MW-25	104310-03	W3062	2005
04	VBSPK	VBSPK	W3062	2005
05				
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page 1 of

FORM IV VOA

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

EnviroTest Laboratories Inc.

CTDOHS PH-0054

EPA NY049

## VOLATILE ORGANICS DATA RESULTS FORM

Client ID: VBLK136

EnviroTest Lab No: VBLK136

Client Name: Aneptek

Project Name: Stewart ANG Site 1

% Solid:

Matrix: Water Sample Wt/Vol: 5ml

Level: Low

Date Collected: Date Received:

Date Extracted:

Date Analyzed: 8/20/96 Report Date: 9/25/96

Column: DB-624 Lab File ID: W3054.D

Dilution Factor: 1

		Detection Limit	Conc
CAS NO	COMPOUND	ug/l	ug/l
OILD INC			
74-87-3	Chloromethane	10	Ü
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene, total	10	Ŭ U
67-66-3	Chloroform	10	Ü
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	. U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	Ū
79-00-5	1,1,2-Trichloroethane	10	Ū
75-25-2	Bromoform	10	Ŭ
108-10-1	4-Methyl-2-pentanone	10	Ū
591-78-6	2-Hexanone	10	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10	Ū
127-18-4	Tetrachloroethene	10	Ŭ
108-88-3	Toluene	10	Ŭ
108-90-7	Chlorobenzene	10	Ü
100-41-4	Ethylbenzene	10	Ŭ
100-41-4	Styrene	10	Ŭ
1330-20-7	Xylenes, Total	10	Ŭ

FORM I - VOA

Envirolest Laboratories Inc.

### **VOLATILE ORGANICS DATA RESULTS FORM**

Client ID: VBLK136

EnviroTest Lab No: VBLK136

Client Name: Aneptek

Project Name: Stewart ANG Site 1

% Šolid:

Matrix: Water

Sample Wt/Vol: 5ml

Level: Low

Date Collected: Date Received: Date Extracted:

Date Analyzed: 8/20/96 Report Date: 9/25/96

Column: DB-624

Lab File ID: W3054.D

Dilution Factor: 1

CAS NO	COMPOUND	Detection Limit ug/l	Conc. ug/l
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	Ū
106-46-7	1,4-Dichlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
75-69-4	Trichlorofluoromethane	10	U
107-13-1	Acrylonitrile	10	U
74-97-5	Bromochloromethane	10	U
106-03-4	1,2-Dibromoethane	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
74-95-3	Dibromomethane	10	U
110-57-6	trans-1,4-dichloro-2-butene	10	U
74-88-4	Iodomethane	10	Ŭ

FORM I - VOA

Envirolest Laboratories Inc.

#### 1E

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK13	6
--------	---

Lab Name: ENVIROTEST LABS INC. Contract: STEWART

Lab Code:10142

Case No.:##### SAS No.:#####

SDG No.:AN318

(soil/water) WATER

0

Lab Sample ID: VBLK136

Sample wt/vol:

(g/ml) ML 5.00

Lab File ID: W3054

Level:

(low/med) LOW

Date Received: / /

Moisture: not dec.

Date Analyzed: 8/20/96

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

Foil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

Number TICs Found:

**CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		======	==========	======
1.71-23-8	1-Propanol	15.04	6.	J
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FORM I VOA-TIC

3/90

## VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK140

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

Lab Code: 10142

Case No.:##### SAS No.:#####

SDG No.:AN318

Lab File ID:W3067

Lab Sample ID: VBLK140

Date Analyzed: 8/21/96

Time Analyzed:1658

GC Column:DB-624

ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID:MS2 5970 alauky

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

_			LAB	TIME
	EPA	LAB		ANALYZED
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALIZED
	=======================================	==========	=======================================	=======
01	MW-14MS	164318-01MS	W3069	1928
02	MW-14MSD	164318-01MSD	W3070	2016
	TB-08-14	164318-04	W3071	2105
03	IB-08-14			
04				
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COMMENTS	•
COLUMENTS	۰

2 of page

FORM IV VOA

3/90

EnviroTest E	
Laboratories	Inc.

### **VOLATILE ORGANICS DATA RESULTS FORM**

Client ID: VBLK140

EnviroTest Lab No: VBLK140

Client Name: Aneptek

Project Name: Stewart ANG Site 1

% Šolid:

Matrix: Water Sample Wt/Vol: 5ml

Level: Low

Date Collected: Date Received: Date Extracted:

Date Analyzed: 8/21/96 Report Date: 9/25/96 Column: DB-624 Lab File ID: W3067.D

Dilution Factor: 1

CAS NO	COMPOUND	Detection Limit ug/l	Conc. ug/l
CAS NO	COMI COND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	Ŭ
540-59-0	1,2-Dichloroethene, total	10	Ŭ
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	Ŭ
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	10	<u>U</u>
78-87-5	1,2-Dichloropropane	. 10	U
10061-01-5	cis-1,3-Dichloropropene	10	. <u>U</u>
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	Ŭ
10061-02-6	trans-1,3-Dichloropropene	10	<u>U</u>
79-00-5	1,1,2-Trichloroethane	10	Ŭ
75-25-2	Bromoform	10	ŭ
108-10-1	4-Methyl-2-pentanone	10	ũ
591-78-6	2-Hexanone	10	ŭ
79-34-5	1,1,2,2-Tetrachloroethane	10	ũ
127-18-4	Tetrachloroethene	10	ũ
108-88-3	Toluene	10	Ü
108-90-7	Chlorobenzene	10	Ü
100-41-4	Ethylbenzene	10	ũ
100-42-5	Styrene	10	ũ
1330-20-7	Xylenes, Total	10	U

FORM I - VOA

EnviroTest Laboratories Inc. \_

### **VOLATILE ORGANICS DATA RESULTS FORM**

Client ID: VBLK140

EnviroTest Lab No: VBLK140

Client Name: Aneptek

Project Name: Stewart ANG Site 1

% Šolid:

Matrix: Water

Sample Wt/Vol: 5ml

Level: Low

Date Collected: Date Received: Date Extracted:

Date Analyzed: 8/21/96 Report Date: 9/25/96 Column: DB-624 Lab File ID: W3067.D

Dilution Factor: 1

CAS NO	COMPOUND	Detection Limit ug/l	Conc. ug/l
95-50-1	1,2-Dichlorobenzene	10	. U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
75-69-4	Trichlorofluoromethane	10	U
107-13-1	Acrylonitrile	10	U
74-97-5	Bromochloromethane	10	U
106-03-4	1,2-Dibromoethane	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	Ų
74-95-3	Dibromomethane	10	Ŭ
110-57-6	trans-1,4-dichloro-2-butene	10	U
74-88-4	Iodomethane	10	U

FORM I - VOA

Envirolest Laboratories Inc.

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

EDA NV

#### 1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK140

Lab Name: ENVIROTEST LABS INC. Contract: STEWART

Lab Code:10142

Case No.:##### SAS No.:#####

SDG No.:AN318

Matrix: (soil/water) WATER

Lab Sample ID: VBLK140

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: W3067

Level:

(low/med) LOW

Date Received: / /

% Moisture: not dec.

Date Analyzed: 8/21/96

GC Column:DB-624

ID: 0.53 (mm)

Dilution Factor:

1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0

(uL)

Number TICs Found:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=======================================		======	=========	======
1				
3				-
4		<del></del>		
5				
7.			<del></del>	
9				
10.				
11.				
12.				
13.				
14				
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16				
17.				<u> </u>
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19.				
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1 21.				
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			l	i

FORM I VOA-TIC

3/90

#### ENVIROFORMS/INORGANIC CLP

#### 3 BLANKS

Lab Name: ENVIROTEST LABORATORIES

Contract: 94160134

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE318

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

-	Initial		<b></b>		a.lil		tion		Prepa-		
	Calib.	ĺ	Conti		ing Calil		ETON	- [	ration	ı	1 1
	Blank		_		.ank (ug/1		•		Tr.	c	м
Analyte	(ug/L)	C	1	C	2	C	3	C	Blank	Ч	I <sup>M</sup>
		_						<u></u>		<del></del>	577
Aluminum		Ū	37.3	ᄞ	37.3	<u>ה</u>	37.3	ᄞ	41.444	ū	EM
Antimony		힌	20.9	Ū	-28.2	B U	20.9	<del>מ</del> מ	-25.564	B U	PM PM FM
Arsenic	2.2	힌	2.2	፱	2.2	U	2.2	빏	2.444	籄	FM
Barium	1.3	<u><u></u></u>	1.3	힐	1.3	$\overline{\underline{\mathbf{u}}}$	1.3	<u>ט</u>	1.444		EM
Beryllium_	1.1	힌	1.1	Ū	1.1	<u>ש</u>	1.1	빌	1.222	Ū	150
Cadmium	4.4	Ū	4.4	Ū	4.4	Ū	4.4	<del>ป</del> ั	4.889	UBU U	PM PM PM PM PM PM PM PM PM PM PM PM
Calcium	15.6	$\overline{\mathbf{U}}$	15.6	Ū	15.6	$\overline{\underline{v}}$	15.6	빏	36.870	빏	EM
Chromium	9.5	Ū	9.5	Ū	9.5	<u> ប</u>	9.5	ממשום	10.556	밁	EM
Cobalt	5.7	$\overline{\mathbf{U}}$	5.7	Ū	5.7	Ū	5.7	밀	6.333	<del>U</del> U	EM
Copper	2.6	፱	2.6	፱	2.6	ับ	2,6	빞	2.889	밁	PM
Iron	5.7	Ū	5.7	$\overline{\mathbf{U}}$	5.7	Ū	5.7	의	12.997	B B U	EM
Lead	0.9	Ū	0.9	$\overline{\underline{\mathbf{U}}}$	-1.0	$\overline{\mathbf{B}}$	-1.4	B U U	-1.322	빏	PM
Magnesium	26.2	Ū	26.2	$\overline{\overline{\mathbf{U}}}$	26.2	$\overline{\mathbf{U}}$	26.2	U	29.111	밁	
Manganese	1.0	$\overline{\mathbf{U}}$	1.0	$\overline{\overline{\mathbf{U}}}$	1.0	<u>Ū</u>	1.0	낕	1.532	흵	PM CV
Mercury	0.2	Ŭ	0.2	Ū	0.2	<u></u>			0.200		
Nickel	16.2	Ū	16.2	$\overline{\underline{\mathbf{U}}}$	16.2	Ū	16.2	U B U	18.000	B U U U U	1 PM
Potassium	52.2	ប	52.2	Ū	52.2	Ū	-57.6	<u>B</u>	58.000	빌	PM
Selenium	2.0	$\overline{\mathbf{U}}$	2.0	Ū	2.0	Ū	2.0	<u>u</u>	2.222	<u>U</u>	FM
Silver	4.4	บิ	4.4	$\overline{\overline{\mathbf{U}}}$	4.4	Ū	4.4	Ū	4.889	<u>u</u>	PM
Sodium	49.4	ប	49.4	Ū	49.4	Ū	49.4	Ū	181.231	B U	PM
Thallium	0.7	ប	0.7	B U	0.7	Ū	0.7	፱	0.778	밀	FM
Vanadium	7.1	Ü	7.1	U	7.1	<u>U</u>	-8.3	B U	7.889	Ū	PM PM FM PM PM FM PM PM PM C
Zinc	3.0	บิ	3.0	$\overline{\overline{\mathbf{U}}}$	3.0	$\overline{\mathbf{U}}$	3.0	ᄞ	3.333	፱	PM
Cyanide	10.0	Ū	10.0	<u>U</u>		_		$ _{-} $	10.000	Ū	
Boron	-1.0	$ \Box $			0.5	<b>I</b> _	-1.3		5.815	1_1	PM

FORM III - IN

EnviroTest Laboratories Inc.

#### ENVIROFORMS/INORGANIC CLP

### **BLANKS**

Lab Name: ENVIROTEST LABORATORIES

Contract: 94160134

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: ANE318

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С				Calik (ug/I 2		ation 3	С	Prepa- ration Blank C	м
Aluminum		П									
Antimony							_		_ _		
Arsenic		-							_ _	·	_
Barium		-							_ _		
Beryllium		-		_					_ _		_
Cadmium							_		_ _		
Calcium				_			_		_ _		
Chromium	•			l_			_		_ _	_   _   .	_
Cobalt				_	<u> </u>		_		_ _	_   ]	—
Copper				_			_		_ _		
Iron				_			_		_ _		<del></del>
Lead			-1.4	B	<u> </u>	-1.2	B		- -		FM
Magnesium		_	<u></u>	_			_		_ _		—
Manganese	l	. _		<b> </b> _			_		- -		
Mercury		_		<b> </b> _	<b> </b>		_		_ _		
Nickel	İ	. _		<b> </b> _			_		- -		
Potassium		. _		_			_		_ -	-	-
Selenium		_		l_					_ _		
Silver		. _		<b> </b>			_		_ _	-	
Sodium		. _		<b> </b> _	<u> </u>		_		_ -		
Thallium		.   _		l_			<b> </b>		_]_		
Vanadium		. _		<b> </b> _			<b> </b> _		_]_		
Zinc		.[_		<b> </b> _			_		-[-	-	
Cyanide		. _		<b> </b> _			_		_ -	-	
Boron	<u> </u>	.1_		۱_	l		<b>I</b> _	l	_1_1		

FORM III - IN

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EPA NY049

#### 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENVIROTEST LABS INC.

Contract:STEWART

Lab Code:10142

Case No.: #####

SAS No.:#####

SDG No.:AN318

Lab File ID (Standard): WS444

Date Analyzed: 8/20/96

Instrument ID:M82 5970 a/20/44

Time Analyzed:1256

GC Column:DB-624

ID: 0.53 (mm)

Heated Purge: (Y/N) N

1		IS1 (FBZ)		IS3 (G3Z)		IS ( -)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
		=========	======	========	======	========	======
	12 HOUR STD	3743575	18.82	3017110	25.71	•	
	UPPER LIMIT	7487150	19.32	6034220	26.21		
	LOWER LIMIT	1871788	18.32	1508555	25.21		
	POMER TIWIL	10/1/00	10.32	1300333			======
		========	======	========			
	EPA SAMPLE						
	NO.					i .	
	==========	========	======	========	======		======
01	VBLK136	3290429	18.86	2520833	25.73		<b> </b>
02	MW-14	3216087	18.83	2408469	25.72		
03	MW-15	3237798	18.83	2459084	25.71	<u> </u>	
04	MW-25	3128756	18.83	2372575	25.72		
05	VBSPK	3198454	18.83	2564273	25.72		
06							
07							
08							
09	•						
10							
11							
12							
T2	<u> </u>		<del></del>				
13							
14		<del></del>					
15						·	
16							
17	•					· · · · · · · · · · · · · · · · · · ·	
18							·
19							
20							ļ
21							
22							
<b>44 44</b>		I				·	

IS1 (FBZ) = Fluoroisenzene

TS =

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside of QC limits with an asterisk.

\* Values outside of QC limits.

page 1 of 3

FORM VIII VOA

3/90

315 Fullerton Avenue Newburgh, NY 12550 (914) 562-0890 FAX (914) 562-0841

EnviroTest Laboratories Inc.

NJDEP 73507

CTDOHS PH-0054

EPA NY049

#### 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ENVIROTEST LABS INC.

Contract: STEWART

ab Code:10142

Case No.:#####

SAS No.:#####

SDG No.:AN318

Lab File ID (Standard):WS447

Date Analyzed: 8/21/96

Instrument ID:MS2 5970 9/30/99

Time Analyzed:1248

C Column:DB-624

ID: 0.53 (mm)

Heated Purge:

(Y/N) N

•							
١		IS1 (FB2)		IS3 (U32)		IS ( )	
1		AREA #	RT #	AREA #	RT #	AREA #	RT #
	=========	========	======	========	======	========	=
	12 HOUR STD	4391259	18.85	3609478	25.72		
	UPPER LIMIT	8782518	19.35	7218956	26.22		
	LOWER LIMIT	2195630	18.35	1804739	25.22		
۱ ا		========	=====	========	======	=======	======
	EPA SAMPLE						
. 1	NO.	*					
<b>'</b>	=========	=======	======	========	======	========	======
1	VBLK140	3815294	18.87	3009716	25.74		
2	MW-14MS	3959236	18.84	3205958	25.72		_
)3	MW-14MSD	3769971	18.84	3020697	25.73		_
)4	TB-08-14	3991235	18.84	2948686	25.73		
)5							
)6 )7							
8(							
9							
LO			l				
11		-					
L1 L2					1		
L3							
L4				•			
L5							
L6							
L6 L7							
L8							
L9							
20							
21	•						
22							
		·	• ———		• — — — — — — — — — — — — — — — — — — —		

) = Fluorobenzene IS1 (

IS

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside of QC limits with an asterisk.

\* Values outside of QC limits.

2 of 3 page

FORM VIII VOA

3/90

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Envirolest \iint Laboratories Inc. \_

## APPENDIX J DATA USABILITY REPORT

#### APPENDIX J

#### DATA USABILITY REPORT

#### 1.0 ASSESSMENT OF DATA QUALITY OBJECTIVES

This data usability report presents a summary and assessment of the laboratory and field quality control (QC) samples generated throughout this landfill closure design. The data are assessed according to the quality assurance objectives of precision, accuracy, completeness, representativeness, and comparability. A summary of the analytical methods used in the sampling program is presented in Table J-1

The raw laboratory analytical data included with this report utilizes a variety of data qualifiers. For this report, only three qualifiers have been used:

"Not detected" - "Not detected" qualifiers ("U" qualifiers) flag analytes that were analyzed but not detected above detection limits. These also reflect data that were considered "not detected" as a result of blank analyses (Section 5.0).

"Estimated" - "Estimated" qualifiers ("J" qualifiers) flag results which have one or more QC deviations associated with the data. For this report, the "J" qualifier encompasses the following organic qualifiers used in the laboratory analytical report: "J", "B" and "E"; and the following inorganic qualifiers: "B", "E", "N", "M" and "\*".

"Rejected" - "Rejected" qualifiers ("R" qualifiers) flag results determined to be invalid through the analyses performed in support of this Data Usability Report.

With the exception of data from six ammonia analyses, quality assurance objectives were achieved during this sampling program. All data except those six flagged with "R" qualifiers are assessed to be representative and valid and should be considered accéptable.

#### 2.0 HOLD TIME ANALYSIS

Hold times for sample extraction/preparation and analysis were monitored during this project. Hold time analysis entailed listing the samples, the date each sample was collected, and the date of sample analysis for each parameter requested. The elapsed time from sample collection to sample analysis was calculated and compared with the hold time specified in the project-specific Quality Assurance Project Plan (QAPP). Table J-2 presents the results of the hold time analysis. All hold times were acceptable except for ammonia analyses. The hold time of 28 days for ammonia analysis was exceeded by nine to ten days on the samples from monitoring wells 4 and 12, and from surface water locations 1 (including the field duplicate), 2 and 3. Data from these analyses were flagged with "R" qualifiers in the data summary, Table 5-16.

#### **TABLE J-1** SUMMARY OF ANALYTICAL METHODS STEWART AIR NATIONAL GUARD BASE **NEWBURGH, NEW YORK**

PARAMETER	METHOD	REFERENCE
LEACHATE INDICATORS		
Total Kjeldahl Nitrogen	SM174500 NH3E	1
Ammonia	SM174500 NH3 H	i
	SM174500 NH3 H SM174500 NO3 F	1
Nitrate-Nitrite	EPA 410.2	2
Chemical Oxygen Demand	EPA 410.2 EPA 405.1	2
Biochemical Oxygen Demand	EPA 405.1 EPA 415.2	2
Total Organic Carbon	EPA 160.1	2
Total Dissolved Solids	EPA 375.4	2
Sulfate	SM172320-B	1
Alkalinity	EPA 420.1	2
Phenols	SM174500-CLB	1
Chloride		2
Bromide	EPA 300	
Total Hardness as CaCO <sub>3</sub>	EPA 200.7	2
Color	EPA 110.2	2
INORGANIC PARAMETERS		
Aluminum	EPA 200.7	2
Antimony	EPA 200.7	2
Arsenic	EPA 206.2	2, 3
Barium	EPA 200.7	2
Beryllium	EPA 200.7	2
Boron	EPA 200.7	2
Cadmium	EPA 200.7	2
Calcium	EPA 200.7	2
Chromium	EPA 200.7	2
Cobalt	EPA 200.7	2
Copper	EPA 200.7	2
Cyanide, Total	EPA 335.2	2
Hexavalent Chromium	SM183500 Cr-D	4
Iron	EPA 200.7	2
Lead	EPA 239.2	2, 3
Magnesium	EPA 200.7	2
Managnese	EPA 200.7	2
Mercury	EPA 245.1	2
Nickel	EPA 200.7	2
Potassium	EPA 200.7	2
Selenium	EPA 270.2	2,3
Silver	EPA 200.7	2
Sodium	EPA 200.7	· 2
Thallium	EPA 279.2	2, 3
Vanadium	EPA 200.7	2
Zinc	EPA 200.7	2
ORGANIC PARAMETERS		
Chloromethane	EPA 624	5
Bromomethane	EPA 624	5
Vinyl chloride	EPA 624	5
Chloroethane	EPA 624	5
Methylene chloride	EPA 624	5
Acetone	EPA 624	5
Carbon disulfide	EPA 624	5
1,1-Dichloroethene	EPA 624	5
1,1-Dichloroethane	EPA 624	5
1,1-Diemoroculaire	211007	
		L

 <sup>&</sup>quot;Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
 "Methods for Chemical Analysis of Water and Wastewater", EPA-600/4-79-020, March 1983.

<sup>3)</sup> Atomic Absorption - Furnace Technique.

<sup>4) &</sup>quot;Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

<sup>5)</sup> Federal Register, V. 50 No. 3, January 4, 1985.

## TABLE J-1 (cont.) ANALYTICAL METHODS STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

PARAMETER	METHOD	REFERENCE
ORGANIC PARAMETERS (cont.)		
1,2-Dichloroethene (total)	EPA 624	5 .
Chloroform	EPA 624	5
1.2-Dichloroethane	EPA 624	5
2-Butanone	EPA 624	5
1.1.1-Trichloroethane	EPA 624	5
Carbon tetrachloride	EPA 624	5
Vinyl acetate	EPA 624	5
Bromodichloromethane	EPA 624	5
1,2-Dichloropropane	EPA 624	5
cis-1,3-Dichloropropene	EPA 624	5
Trichloroethene	EPA 624	5
Benzene	EPA 624	5
Dibromochloromethane	EPA 624	5
trans-1,3-Dichloropropene	EPA 624	5
1,1,2-Trichloroethane	EPA 624	5
Bromoform	EPA 624	5
4-Methyl-2-pentanone	EPA 624	5
2-Hexanone	EPA 624	. 5
1,1,2,2-Tetrachloroethane	EPA 624	5
Tetrachloroethene	EPA 624	5
Toluene	EPA 624	5
Chlorobenzene	EPA 624	5
Ethylbenzene	EPA 624	5
Styrene	EPA 624	5
Xylenes, Total	EPA 624	5
1,2-Dichlorobenzene	EPA 624	5
1,3-Dichlorobenzene	EPA 624	5
1.4-Dichlorobenzene	EPA 624	5
1.1.1.2-Tetrachloroethane	EPA 624	5
1,2,3-Trichloropropane	EPA 624	5
Trichlorofluoromethane	EPA 624	5
Acrylonitrile	EPA 624	5
Bromochloromethane	EPA 624	5
1,2-Dibromomethane	EPA 624	5
1,2-Dibromo-3-chloropropane	EPA 624	5
Dibromomethane	EPA 624	5
trans-1,4-dichloro-2-butene	EPA 624	5
Iodomethane	EPA 624	5

#### References

5) Federal Register, V. 50 No. 3, January 4, 1985.

# STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK HOLD TIME ANALYSIS TABLE J-2

				_		_	_	_	_				_							_	<u></u>		_	<u>.</u>											·		_			_	
_	<b>2</b> 1 .	의누		5 20		8	_			21			3							8			33			3 %	_								<u>~</u>		-			_	
Total	Metals	Analysis	26/57/01	12/19/95						12/20/95			5/12/12/1							_	1/5/96					1/3/8									8/16/96		8/20/96				8/77/8
	_	.or⊢	13 62	15		ន	8	8	ន	21			₹								35		34	34	4 5	4 4									11		∞		_	× 0	
	Thalium	Analysis	12/14/95	12/14/95		12/20/95	12/20/95	12/20/95	12/20/95	12/20/95		000	25/07/71							12/20/95	1/4/96		1/4/96	1/4/96	06/4/1	1/4/96									96/6/8		8/22/96		9	8/22/90	96/77/8
		T	7	7		9	9	9	9			`	0							9	13		12	2 :	7 :	2 5	į								7	_	7		•	7 (	4
	Phenol	Analysis	12/6/95	12/6/95		12/6/95	12/6/95	12/6/95	12/6/95			*01.71	06/0/71							12/6/95	12/13/95		12/13/95	12/13/95	26/51/71	12/13/95									7/31/96		8/16/96			8/10/30	8/10/30
		7	7 1	7		19	19	19	6	ន		,	Ţ							19	33		75	7 3	¥ ?	¥ 5	,								•		••		•	<b>.</b> .	,
	Selenium	Analysis	12/6/95	12/6/95		12/19/95	12/19/95	12/19/95	12/19/95	12/19/95			06/61/71							_	1/4/96					1/4/96									96/9/8		8/22/96				96/77/8
		_	7	7		18	18	8	18	19		;	2							18	33		32	32	7 8	3 2									∞		12			7 9	7
	Lead	Analysis	12/6/95	12/6/95			_			12/18/95			C6/81/71								1/2/96					12/8									96/9/8		8/26/96		,	8/26/96	96/97/8
	٠.		4 6	9		22				23			7							22	8		8	8 8	27 6	200	3								7				•	٠.	-
	Arsenic	_	12/13/95	12/13/95						12/18/95			C6/81/71							_	1/2/96					2/36									8/1/96		8/14/96				8/14/90
	'n	ωŀ	6 6	9	_	ដ		_		8			7							ដ			78			% %									_	_	_				
	Mercury	Analysis	10/17/95	12/5/95		12/22/95	12/22/95	12/22/95	12/22/95	12/22/95			C6/77/71								12/29/95					12/29/95									8/2/96		8/12/96				8/12/36
- F	T-	آو	7	7		9	9	9	9		9		0							_	15	_	_			4 7									0		~			2	
Chemical Oxygen	Demand	Analysis	12/6/95						12/6/95		12/6/95		12/6/95								12/15/95					12/15/95									8/1/8		8/19/96				8/19/96
	- س	إي	6	6		∞	∞	00	∞		•	•	×							-	2		2			12	_								^		<u>د</u>			2	
Total Organic	Carbon	Analysis	12/8/95			12/8/95	12/8/95	12/8/95	12/8/95		12/8/95		26/8/21								12/13/95					12/13/95	٠.								8/2/96		8/19/96				8/19/96
7	F	ړ	28			4	4	4	4		3		4		_					_	12		_		_	==									e		9			9 '	
Total Kjeldahl	Nitrogen	Analysis	12/27/95						12/4/95	_	12/5/95		12/4/95								12/12/95					12/12/95									8/1/96	_	8/20/96				8/20/96
	<u>.</u>	او.	3			77		_		8			7							17			5			21									7		7			7 (	
	Cyanide	Analysis	10/6/95	_		<u> =</u>	12/21/95		12/21/95	12/21/95			12/21/95 21								12/22/95					10 12/22/95									1 7/31/96		96/91/8		_		1 8/16/96
Ι.		اي	2	7		_		_	_		_		_						_		11										_				_	_					
Nitrate	Nitrite	Analysis	12/1/95	12/1/95		12/1/95	12/1/95	12/1/95	12/1/95		12/1/95		12/1/95							12/1/95	12/11/95		12/11/95	12/11/95	12/11/95	12/11/95	2011177								7/30/96		8/12/96			8/12/96	8/12/96
		٦	7 7	7	~				_	7		7	9	9	0 4	۷ 0	7	,	7				_			٢	٠,	,	7	7	7	1	00	∞	6	٥	9	7	7	9	۰ ۲
	Volatiles	Analysis	10/5/95	12/6/95	12/6/95					12/6/95		12/7/95	12/6/95	12/6/95	26/0/7	12/6/93	20/0/21	12/7/95	12/7/95							10/0/05	30,0,0,0	12/8/95	12/8/95	12/8/95	12/8/95	12/8/95	12/8/95	12/8/95	96/1/8	96/1/8	8/20/96	8/21/96	8/21/96	8/20/96	8/20/96
	Date	Sampled	10/3/95	11/29/95	11/29/95	11/30/95	11/30/95	11/30/95	11/30/95	11/29/95	11/30/95	11/30/95	11/30/95	11/30/95	11/30/95	11/30/05	11/30/05	11/30/95	11/30/95	11/30/95	11/30/95	12/1/95	12/1/95	12/1/95	12/1/95	12/1/95	20,1701	12/1/95	12/1/95	12/1/95	12/1/95	12/1/95	11/30/95	11/30/95	7/29/96	7/29/96	8/14/96	8/14/96	8/14/96	8/14/96	8/14/96
		Sample I.D.	154009-01(FB)	155817-02	155817-03(TB)	155893-01	155893-02	155893-03	155893-04	155893-05	155893-06	155893-07(TB)	155893-08	155893-09	155893-10	125893-11	155003 12	155987-MS	155983-MSD	155893-14	155919-01	155919-02	155919-03	155919-04	155919-05	155919-06	193919-0/	155919-08	155919-09MS	155919-09MSD	155919-10	155919-11	155919-12	155919-13	163610-01(FB)	163610-02(TB)	164318-01	164318-01MS	164318-MSD	164318-02	164318-03

11/30/95 = date analysis was performed 9 = number of days from date sampled to date of analysis Key:

FB = field blank

MS = matrix spike

MSD = matrix spike duplicate

TB = trip blank

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# TABLE J-2 (cont.) HOLD TIME ANALYSIS STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

		Г	Biochemical	교		$\vdash$	Total	┝		-			,	一		┝		
			Oxygen		;		Dissolved		:		Ċ		Hexavalent	ㅂ				
	Ammonia		Demand		Sulfate		Solids		Aukalmity	_	Color		Chromum		Sromide Analysis		Analueis	
	Alexandra T	T	cientysis	L	- Allenyana	╁	ene (many	+	- Cultural Silva	$\dagger$	eric (rome	T		t		╁	and and and and and and and and and and	Τ
	12/7/95	∞	11/29/95	0	12/21/95	ដ		-7	11/30/95	-	11/30/95		11/30/95	-		-	12/4/95	3
	12/7/95	<b>∞</b>	11/29/95	0	12/21/95	23	12/1/95		11/30/95	_	11/30/95	-	11/30/95	_	12/4/95		12/4/95	٠,
	30/1/01	r	30/1/01	_	10,000	,	10/4/04		10/8/05		12/1/06		12/1/05	-	30/1/05		30/31/61	ž
	12/7/95	, ,	12/1/95	-	_	3 6		. *	12/5/95	٠ ٧	12/1/95		12/1/95			4		15
	12/7/95		12/1/95	Ξ		23			12/5/95	8	12/1/95	-	12/1/95	_				15
	12/7/95	7	12/1/95	Ξ		72	12/5/95	2	12/5/95	2	12/1/95		12/1/95	_	12/4/95	4	12/15/95	15
																	-	
	12/7/95	7	12/1/95	=	12/27/95	22	12/5/95	2	12/5/95	8	12/1/95	-	12/1/95	_	12/4/95	4	12/15/95	15
	-	-									90.00	,		_				;
	56/1/21	_	66/1/21		C6//7/71 1	7	C6/C/71	<u>-</u>	C6/C/71	<u></u>	6/1/21	-	8/1/21	_	CK/4/21	4	CK/CI/71	CI
26/06/1																		
_																		
11/30/95																		
11/30/95										_								
11/30/95						_		_										
1/30/95										_								
11/30/95	12/7/95	7	12/1/95	-	12/27/95 27	27	12/5/95	2	12/5/95	2	12/1/95	-	12/1/95		12/4/95	4	12/15/95	15
1/30/95	1/7/96	38	<b></b>							-								
12/1/95			12/1/95	0		27			12/5/95	4	12/4/95	3	12/1/95	0		3		7
12/1/95	1/1/96	37	12/1/95	0		27		2	12/5/95	4	12/4/95	6	12/1/95	0				14
12/1/95	1/1/96	37	12/1/95	0	12/28/95	22	12/6/95	2	12/5/95	4	12/4/95	e	12/1/95	0				14
12/1/95	1/1/96	37	12/1/95	0	12/28/95	27	12/6/95	2	12/5/95	4	12/4/95	9	12/1/95	0				14
12/1/95	1/1/96	37	12/1/95	0		73				4	12/4/95	<b>6</b>	12/1/95	0		3 1	_	14
12/1/95	1/7/96	37	12/1/95	0	12/28/95	22	12/6/95	2	12/5/95	4	12/4/95		12/1/95	0	12/4/95	_	12/15/95	14
12/1/95																		
12/1/95																		
12/1/95																		
12/1/95																		
12/1/95																		
12/1/95				_														
11/30/95																		
11/30/95				_			-	_		-								
2/29/96	9/2/8	7	1/29/96	0	8/2/96	7	8/1/8	<u>.</u>	7/31/96	7	7/30/96	~	7/30/96	_	1/31/96	7	96/9/8	00
7/29/96									_						_			
8/14/96	8/12/96	-	8/14/96	0	8/16/96	7	8/12/96	_	96/91/8	7	8/12/96	_	8/12/96	_	8/12/96	=	8/12/96	_
8/14/90	_																	
8/14/96	70/31/0		20/11/0	•	20/2//0		70/31/0		20/21/0	,	9/14/06	-	70/31/6	-	9/14/06		20/4/10	-
0/14/00	0/12/90		0/14/06		20170	٠,	20/1/10	-	-	1 (	2/15/06	-	20/21/0	-			20/21/0	٠.
8/14/96	06/01/0	-	06/14/1/0	_	06/01/0		26776			١	06/17/10		06/51/0	-			OC ICT IO	-
		1		1		1		ł		1		1		1		1		1
11/30/95 = dz	date analysis was performed	vas p	erformed			-			FB = field blank	ield 1	ld blank							

11/30/95 = date analysis was performed9 = number of days from date sampled to date of analysis

FB = field blank
MS = matrix spike
MSD = matrix spike duplicate
TB = trip blank

#### 3.0 DATA CONSISTENCY WITH PREVIOUS SAMPLING EVENTS

The only previous sampling program related to this Site was a 1987 Site Investigation. Analytical data collected for the SI report were not similar to that of this CIR (i.e., no baseline parameters). Therefor, the CSI is considered the initial site data.

#### 4.0 EVALUATION OF FIELD DUPLICATE RESULTS

Field duplicates were collected to assess the representativeness of sample collection. Duplicate analytical results were compared, and a relative percent difference (RPD) was calculated for analytes that were detected. If an analyte was detected at less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL) in either the sample or the duplicate, the RPD was not calculated. If an analyte was detected in a sample but not the duplicate sample, the RPD was not calculated.

As set forth in the QAPP, the total number of field duplicates should equal 10 percent of the environmental samples taken. In this sampling program, 15 groundwater and surface water samples along with three field duplicates equaling 20 percent of the total number of environmental samples were collected.

Analytical results of the field duplicate analysis are presented in Table J-3. An RPD of less than 50 percent is considered adequate for field duplicates. This RPD was exceeded for three analytical results:

MW05 - RPD for zinc was 93.36 percent. However, laboratory qualifiers for this result indicate that the method duplicate analysis was not within control limits for this analyte, the spiked sample percent recovery (PR) was not within the control limit, and the result value was estimated due to interference.

MW-15 - RPD for Chemical Oxygen Demand (COD) was 57.03 percent. The laboratory qualifier for the COD result indicates that the method duplicate analysis was not within control limits.

MW15 - RPD for Total Organic Carbon (TOC) was 100 percent. The high RPD of TOC concentrations in this sample may have been the result of higher turbidity in the duplicate sample, as recorded in field observations at the time of sampling. Increased particulate matter in the duplicate sample might be expected to cause a higher TOC concentration.

These three results are considered acceptable as estimates and are flagged with "J" qualifiers in the data summary Table 5-16. Overall, RPD analysis of field duplicates indicates that the sampling was representative of actual environmental conditions.

#### TABLE J-3 CHEMICAL CONSTITUENTS DETECTED IN FIELD DUPLICATE SAMPLES STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

		SAMPLE	DUPLICATE	MEAN	
		CONCENTRATION	CONCENTRATION	CONCENTRATION	%
SAMPLE LOCATION	CONSTITUENT	(mg/L)	(mg/L)	(mg/L)	RPD
SW01	LEACHATE INDICATORS				
	Alkalinity	111	109	110	1.82
	COD	15.9	9.9	12.9	46.51
	Chlorides	63.6	64.6	64.1	1.56
	Sulfate	31	31	31	0.00
	TDS	166	220	193	27.98
	ТН	153	167	160	8.75
	тос	3.3	4.7	4	35.00
	INORGANIC PARAMETERS				
	Aluminum	0.105 J	0.13 J	0.1175	21.28
	Barium	0.017 J	0.0188 J	0.0179	10.06
	Boron	0.025 J	0.026 J	0.0255	3.92
	Calcium	50.4	55.1	52.75	8.91
	Copper	0.0039 J	0.004 J	0.00395	2.53
	Iron	0.347	0.455	0.401	26.93
	Lead	0.00096 J	0.0016 J	0.00128	50.00
	Magnesium	6.54	6.99	6.765	6.65
	Manganese	0.0896	0.101	0.0953	11.96
	Potassium	0.356 J	0.379 J	0.3675	6.26
	Sodium	31	33	32	6.25
	Zinc	0.09	0.111 J	0.1005	20.90
MW-5	ORGANIC PARAMETERS				
	Methylene Chloride	0.001	ND	NA	NA
	LEACHATE INDICATORS				
	Alkalinity	139	148	143.5	6.27
	COD	10	8	9	22.22
	Chlorides	83.9	83.9	83.9	0.00
	Sulfate	20	19.5	19.75	2.53
	Thallium	0.0016 J	ND	NA 207	NA 0.50
	TDS	336	338	337	0.59
	тн	267	246	256.5	8.19
	INORGANIC PARAMETERS Aluminum	0.0556 J	0.0595 J	0.05755	6.78
	Antimony	0.0367 J	0.044 J	0.04035	18.09
	Barium	0.0367 J	0.0324 J	0.03275	2.14
1	Boron	0.0129 J	0.0324 J 0.0142 J	0.01355	9.59
	Cadmium	ND	0.0142 J	NA	NA
		84.9 J	77.6 J	81.25	8.98
	Chromium	0.013	ND ND	NA	NA
	Chromium	0.013 0.0046 J	0.006 J	0.0053	26.42
	Copper	0.0046 J 0.102 J	0.006	0.138	52.17
	Iron	0.102 J ND	0.174 0.0012 J	NA	32.17 NA
	Lead Magnesium	13.5 J		13.15	5.32
		0.709 J	0.681 J	0.695	4.03
	Manganese	0.709 3	0.817 J	0.847	7.08
	Potassium		0.817 J 0.0034 J	0.0032	12.50
	Silver	0.003 J		8.715	5.62
	Sodium	8.96 J	8.47 J	0.00925	83.24
	Vanadium	0.0131 J 0.0861 J	0.0054 J 0.0313 J	0.0587	93.36
1	Zinc	0.0861 J	0.0313 1	0.0387	73.30



## TABLE J-3 (cont.) FIELD DUPLICATE ANALYSIS FOR WATER SAMPLES STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

		SAMPLE		DUPLICATE		MEAN	
		CONCENTRATIO	N	CONCENTRATIO	ON	CONCENTRATION	%
SAMPLE LOCATION	CONSTITUENT	(mg/L)		(mg/L)		(mg/L)	RPD
MW15	LEACHATE INDICATORS						
	Alkalinity	38.6		40.6		39.6	5.05
	COD		J	18.8	J	26.3	57.03
	Chlorides	14.7	-	15.7	-	15.2	6.58
	N03-N02	0.53		0.59		0.56	10.71
	Sulfate	22		22		22	0.00
	TDS	114		116		115	1.74
	тн	107		102		104.5	4.78
	TKN	1.2		ND		NA	NA
	TOC	1.7		5.1		3.4	100.00
	INORGANIC PARAMETERS						
	Aluminum	9.42		9.76		9.59	3.55
	Arsenic	0.0027	J	0.0034	J	0.00305	22.95
	Barium	0.0729	j	0.0812	j	0.07705	10.77
	Boron	0.0231	j	0.0256	j	0.02435	10.27
	Calcium	32.3	j	30.6	j	31.45	5.41
	Chromium	0.0119		0.0137	•	0.0128	14.06
	Cobalt	0.0125	J	0.0101	j	0.0113	21.24
	Copper		J	0.0283	-	0.027	9.63
	Iron	19.3	•	19.3		19.3	0.00
	Lead	0.0131	J	0.0138	J	0.01345	5.20
	Magnesium	6.29	-	6.2		6.245	1.44
	Manganese	0.916		0.87		0.893	5.15
	Nickel	0.0211	J	0.0258	J	0.02345	20.04
	Potassium	2.7	J	2.85	J	2.775	5.41
•	Sodium	14.9		14.9		14.9	0.00
	Thallium	0.0013	J	ND		NA.	NA
	Vanadium	0.0258		0.0269	J	0.02635	4.17
	Zinc	1	J	0.35	J	0.3845	17.95

J mg/L	= Estimated value = milligrams per liter		
RPD	=	Concentration Sample - Concentration Duplicate (Concentration Sample + Concentration Duplicate)/2	x 100%

#### 5.0 ANALYSIS OF FIELD, TRIP, RINSATE AND METHOD BLANK SAMPLES

#### 5.1 Field Blanks

This sampling program was considered a two event project. The first sampling event included sampling of all surface waters and monitoring wells 1 and 4 through 12. The second sampling event included sampling of monitoring wells 14 and 15. For each event, a field blank water sample was collected from the water truck used to supply water for final decontamination rinsing. Analytical data from all environmental samples were compared to the results of the corresponding field blanks. If the concentration of an inorganic analyte detected in a sample was less than five times the concentration detected in the field blank, the data was flagged with "J" qualifier. If data were already flagged with an "J" qualifier or other estimate qualifiers by the laboratory then no other qualifier was added as a result of the field blank analysis. If the concentration of an organic analyte detected in a sample was less than five times the concentration detected in the field blank, the data was considered "not detected" and flagged with a "U" qualifier. Though a concentration of 68 micrograms per liter ( $\mu g/L$ ) of chloroform was detected in the field blank from the second sampling event (FB-7-24-96), only one detectable concentration of 2  $\mu$ g/L was detected in the samples associated with this field blank. This data was flagged with a "U" qualifier. Chloroform frequently occurs in potable water as was used in the water truck that supplied the field blank. Results of the field blank analysis are presented in Table J-4.

#### 5.2 Trip Blanks

Trip blanks were prepared by the laboratory and shipped to field personnel for use during sampling. A trip blank accompanied each shipment of samples requiring volatile organic analysis from the time of collection in the field through analysis in the laboratory. The trip blanks were analyzed by the same method as the accompanying samples, EPA Method 624. Estimated values of  $1.0~\mu g/L$  methylene chloride were detected in two trip blanks from the second sampling event. However, methylene chloride was not detected in any of the samples associated with these trip blanks. No other constituents were detected in any trip blanks above detection limits. Results of the trip blank analysis are presented in Table J-4.

#### 5.3 Equipment Rinsate Blanks

Groundwater samples were collected with dedicated Teflon-coated bailers, while surface water samples were collected directly from the surface water without equipment. Therefore no equipment rinsate samples were necessary.

#### 5.4 Method Blanks

Method blanks were run for all appropriate analyses to verify that the laboratory equipment or environment did not introduce contaminants that would affect analytical results. If an organic

TABLE J4
CHEMICAL CONSTITUENTS DETECTED IN FIELD AND TRIP BLANK SAMPLES
STWEART AIR NATIONAL GUARD BASE
NEWBURGH, NEW YORK

					SAMPLE	TE		
CONSTITUENT	FBTW-100395	0395	FB-072496	TB-112995	TB-113095	TB-120195	TB-072995	TB-081496
ORGANIC PARAMETERS (ug/l)								
Acetone	4	-	Q	£	Ð	Ð	Ð	Q.
Chloroform	윤		89	Ð	Q.	£	Ð	Ð
Bromodichloromethane	4	ŗ	4	Ą	Ð	Ð	Q.	Ð
Methylene chloride	g		QZ QZ	Ð	Ð	æ	1 J	1 J
Trichloroethene	£		1 J	£	Ð	Ð	Q	Ð
Tetrachloroethene	Ð	• • •	2 J	£	Ð	Ð	Q	£
Toluene	æ		1 J	Ð	Q	Ð	Ð	£
Total Xylenes	g		1 J	£	Q.	S S	S S	Ð
LEACHATE INDICATORS (mg/L)								
COD	Y.		8.1 J	Ð	Ð	Ð	Ð	Ð
Chlorides	Y		21.5	g	Q.	Ð.	QN Q	ND
NO3-NO2	Ν		0.32	g	Q.	QV Q	ΩŽ	Ę
204	NA		9.5	£	Ð	Ð	Ð	£
TDS	NA		22	£	Ę.	ę.	æ	Ð
ТН	NA		9.69	£	Ð	Ð	£	£
TOC	NA		1.8	Ð	g	2	£	Ð
INORGANIC PARAMETERS (mg/L)								
Aluminum	0.281		0.384	Ð	£	Q.	Q	Ð
Barium	0.0109	<u> </u>	0.0171 J	8	S.	Q.	Ę	Ð
Boron	N A		0.0092	æ	Q.	S S	£	Ð
Calcium	11.9		7.52	Q.	Q.	S S	Ę	Ð
Copper	0.0104		0.0357	£	Q.	QX Qx	Ę	Ð
Iron	0.986		2.18	Ð	Q.	Ę	Ą	Ð
Lead	2		0.0029 J	Ð	Q.	Q.	Q.	Ð
Magnesium	1.09	-	1.3 J	£	£	Ę	Q.	Ð
Manganese	0.0119	-	0.0367	Ð	Q.	£	Q.	Ð
Potassium	1.3	-	2.15 J	g	£	£	£	£
Sodium	10.1		11.8	Ð	Ę	£	Q.	Q.
Zinc	0.0185		0.0699	<u>R</u>	Ð	Ð	QN	QX

mg/L = milligrams per liter ug/L = micrograms per liter J = Estimated value

FB = Field Blank

NA = Not Applicable (not analyzed)

TB = Trip Blank

constituent was found in the method blank as well as the environmental sample, the data for the sample was flagged with a "J" qualifier. For common laboratory contaminants such as methylene chloride and acetone, if the concentration of the analyte in the sample was less than ten times the concentration in the blank the sample was reported as "not detected" for that analyte and a "U" qualifier was added to the data. For other constituents, the criterion was five times the concentration in the blank. Concentration of constituents detected in blanks were not subtracted from the analytical sample data.

#### 6.0 EVALUATION OF MATRIX EFFECTS

#### 6.1 Surrogate Spikes

Surrogate spike analysis was used to determine the efficiency of analyte recovery in sample preparation using gas chromatography (GC) and gas chromatography/mass spectrometry (GC/MS) methods. The calculated PR of the surrogate was used as a measure of the analytical method's accuracy. A surrogate spike was prepared by adding to an environmental sample (before extraction) known amounts of pure compounds with properties similar to those being analyzed in the sample but which are not normally found in environmental samples. The PR was compared to the acceptable PR range for the surrogate as specified in the QAPP and presented in Table J-5. All surrogate spike results were within the specified control limits.

#### **6.2** Matrix Spikes/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were used to determine the accuracy and precision of an analytical method and to judge whether the sample matrix was interfering with the analysis. The PR of the spike samples were calculated and compared to the acceptable range as specified by each method. Precision of the method was assessed by calculating the RPD from the MS/MSD analysis and comparing the value with the acceptable range established for each method. These control limits are presented in Table J-5. A minimum of one MS/MSD sample was analyzed for every ten environmental samples or batch of samples analyzed together, whichever was smaller. PRs and RPDs were all within the ranges specified for each method for volatile organic analytes. Therefor, no matrix effects are believed to have biased the organic analytical results.

Matrix spikes analyses for leachates and inorganic constituents were also performed. Results of environmental samples were marked with an "J" qualifier if the spiked sample recovery was not within the control limits specified in Table J-5. Results for analytes including zinc, lead, thallium and silver were marked with "J" qualifiers in at least one spike sample analyses. However, none of the PR values for these analytes were below 47 percent, and all but three were 60 percent or above. It is unlikely these results indicate the presence of matrix interference with these analytical methods.

# TABLE J-5 CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND SURROGATE COMPOUNDS STEWART AIR NATIONAL GUARD BASE NEWBURGH, NEW YORK

	RPD	% RECOVERY
MATRIX SPIKE COMPOUND	(Water)	(Water)
ORGANIC PARAMETERS		
1,1-Dichloroethene	14	83-136
Benzene	14	64-170
Trichloroethene	11	68-131
Toluene	13	64-132
Chlorobenzene	13	91-115
INORGANIC PARAMETERS	20	75-125
Aluminum	20	75-125
Antimony	20	75-125
Arsenic	20	75-125
Barium	20	75-125
Berylium	20	75-125
Cadmium	20	75-125
Calcium	20	75-125
Chromium	20	75-125
Cobalt	20	75-125
Copper	20	75-125
Iron	20	75-125
Lead	20	75-125
Magnesium	20	75-125
Manganese	20	75-125
Mercury	20	75-125
Nickel	20	75-125
Potassium	20	75-125
Selenium	20	75-125
Silver	20	75-125
Sodium	20	75-125
Thallium	20	75-125
Vanadium	20	75-125
Zinc	20	75-125

SURROGATE COMPOUND	% RECOVERY (Water)
Toluene d <sub>8</sub> Bromofluorobenzene	88-110 86-115
1,2-Dichloroethane-d <sup>4</sup>	76-114

RPD = Relative Percent Difference

#### 7.0 ASSESSMENT OF QUALITY ASSURANCE OBJECTIVES

#### 7.1 Completeness

Completeness of the sample analyses was determined in two ways. First, the number of sample locations was compared to the number anticipated in the work plan. As specified in the work plan, samples were collected from 12 monitoring wells and three surface water locations, for a total of 100 percent of the planned the sampling locations. Second, the number of laboratory analyses requested was compared to the number of analyses run that were considered valid. Although a complete laboratory data validation was not performed, analyses of major factors which typically cause data to be rejected (hold time, MS/MSD, field duplicates, trip blanks, field blanks, method blanks) were performed in this data quality assurance report. The data from six ammonia analyses were flagged with "R" qualifiers due to exceedance of the specified holding time. No other laboratory data was invalidated as a result of these analyses. One requested phenol analysis was not performed. Of the total of 396 analyses requested on 18 environmental samples (including field duplicates), the data from 389 (98 percent) were valid. The QA objective for completeness was specified as 90 percent or above in the QAPP.

#### 7.2 Representativeness

Representativeness of samples was ensured through the sampling protocols specified in the QAPP, the use of dedicated bailers in collection of groundwater samples, and collection of appropriate field QC samples. Field blanks, trip blanks, and field duplicate samples reflected that the sampling technique was consistent and the samples were representative.

#### 7.3 Precision

The objective for precision was to equal or exceed the precision demonstrated for the applied analytical methods on similar samples. Precision is evaluated most directly by recording and comparing multiple measurements of the same parameter on the same sample under the same conditions. It is expressed in terms of RPD. Analytical results of field duplicate samples were compared and RPDs were calculated. Overall, the RPDs between field duplicate samples were within acceptable ranges. For volatile organic parameters, RPD criteria were evaluated on samples spiked in duplicate with compounds specified in the QAPP. The spiking compounds used and their control limits for PR and RPD are listed in Table J-5. These control limits were met for all analyses.

#### 7.4 Accuracy

A measurement's degree of accuracy is based on a comparison of the measured value with an accepted reference or known value. Accuracy of an analytical procedure is best determined by analyzing a sample and its corresponding matrix spike sample. Accuracy is expressed in terms

of PR. Similar to precision, the accuracy of recovery of an analyte to be expected for analysis of QC samples and spike samples is dependent on the matrix, method of analysis, and constituent being analyzed. In organic analyses, surrogate compounds with properties similar to the target compounds but which are not usually found in environmental samples are spiked into duplicate aliquots of the same environmental sample, and the recovery of each surrogate is calculated. The control limits for PR of surrogate compounds are listed in Table J-5. These objectives were met for the samples analyzed.

#### 8.0 CONCLUSIONS

The data from six ammonia analyses were flagged with "R" qualifiers due to exceedance of the specified hold time. It was unnecessary to reject any other laboratory analytical data generated during this sampling program. All other data generated during this sampling program are assessed to be representative and valid and should be considered usable.

## APPENDIX K RESULTS OF VECTOR SURVEY



## Northeast Ecological Services

Wetland Scientists & Ecologists

October 28, 1996

Mr. Michael Plumb Project Manager Aneptek Corporation 209 West Central Street Natick, MA 01760

Re: Vector Survey, Stewart Air National Guard Base, Newburgh, NY Dear Mr. Plumb:

On October 27 1995, Northeast Ecological Services (NES) inspected the former Base landfill located on the Stewart Air National Guard Base in Newburgh, New York. The purpose of the inspection was to identify the presence of potential wildlife species which may act as vectors between contaminants associated with the former Base landfill and nearby human receptors.

The Base landfill is approximately 8.5 acres in size and consists primarily of a grass cover type (containing both maintained mowed areas and non-maintained areas) with young forested uplands present along the eastern edge of the landfill. The vector survey was conducted by a biologist and consisted of examining the landfill site for evidence of wildlife species which typically seek subsurface cover (i.e., use burrows). Examples of wildlife species present in this region of New York that use burrows (or tunnels) include groundhog (Marmota monax), red fox (Vulpes vulpes), Norway rat (Rattus norvegicus), and eastern chipmunk (Tamias striatus). The Norway rat, in particular, is a common vector species present on landfill sites which may establish a fairly extensive network of tunnels beneath the landfill surface.

The vector survey did not reveal the presence of burrows or tunnels on the landfill site. Although several eastern chipmunks were noted on the site, this species generally does not burrow very extensively nor does this species attain high population densities as

> 79 Glenview Street • Upton, MA 01568 • (508) 529-6753 56 Middle Road • Cumberland, Maine 04110 • (207) 829-5635

the Norway rat often does on landfill sites. No evidence of Norway rats or groundhogs was observed during the vector survey. The absence of Norway rats at the site may be partially attributed to the lack of exposed landfill debris (particularly household garbage) noted at the landfill site.

Based on the survey completed at the former Base landfill located on the Stewart Air National Guard Base, vectors which may cause human health problems do not appear to be present at this landfill site.

Sincerely,

Scott J. Heim, M.S.

Northeast Ecological Services

## APPENDIX L GRAIN SIZE ANALYSIS RESULTS

#### THIELSCH ENGINEERING, INC.

602 Neponset Street Canton, Massachusetts 02021 195 Frances Avenue Cranston, Rhode Island 02910

July 29, 1996

Aneptek Corporation 209 West Central Street Natick, Massachusetts 01760

## EVALUATION OF MATERIAL TEI LAB # 756050

SAMPLE NUMBER
DATE RECEIVED
DATE TESTED
IDENTIFICATION
SOURCE
SAMPLE
METHOD OF ANALYSIS

96-S164 25 July 1996 26 July 1996 GS - 1 NY

sieve

One 44 lb. sample ASTM D422

% passing

RESULTS
Sieve Analysis

<u>size</u>	by weight		
2"	100		
1-1/2	100		
1	90		
3/4	84		
1/2	75		
3/8	71		
#4	61		
10	45		
20	37		
40	31		
50	28		
100	22		
200	17		
0.074 mm	17		
0.005	15		
0.001	12		

Massachusetts
Tel. (617) 575-0162 • Fax (617) 821-8940

**Hydrometer Analysis** 

Rhode Island Tel. (401) 467-6454 • Fax (401) 467-2398 TEI/AC 756050 96-S164 07/29/96

page 2

#### **REMARKS**

Please do not hesitate to call should you have any questions concerning these test methods and results.

THIELSCH ENGINEERING, INC.

anch Olsen Rud

Pamela Olsen, Manager

Construction Testing Services

#### THIELSCH ENGINEERING, INC.

602 Neponset Street Canton, Massachusetts 02021 195 Frances Avenue Cranston, Rhode Island 02910

July 29, 1996

Aneptek Corporation 209 West Central Street Natick, Massachusetts 01760

#### EVALUATION OF MATERIAL TEI LAB # 756050

SAMPLE NUMBER
DATE RECEIVED
DATE TESTED
IDENTIFICATION
SOURCE
SAMPLE
METHOD OF ANALYSIS

96-S165 25 July 1996 26 July 1996 GS - 2 NY One 40 lb. sample ASTM D422

RESULTS
Sieve Analysis

sieve <u>size</u>	% passing by weight
2"	100
1-1/2	100
1	98
3/4	96
1/2	92
3/8	89
#4	82
10	73
20	64
40	61
50	55
100	48
200	41
0.074 mm	40
0.005	31
0.001	22

Massachusetts Tel. (617) 575-0162 • Fax (617) 821-8940

**Hydrometer Analysis** 

Rhode Island Tel. (401) 467-6454 • Fax (401) 467-2398 TEI/AC 756050 96-S165 07/29/96

page 2

#### **REMARKS**

Please do not hesitate to call should you have any questions concerning these test methods and results.

THIELSCH ENGINEERING, INC.

Pamela Olsen, Manager

Construction Testing Services

Parch Olsman

#### THIELSCH ENGINEERING, INC.

602 Neponset Street Canton, Massachusetts 02021

195 Frances Avenue Cranston, Rhode Island 02910

July 29, 1996

**Aneptek Corporation** 209 West Central Street Natick, Massachusetts 01760

#### **EVALUATION OF MATERIAL** TEI LAB # 756050

SAMPLE NUMBER DATE RECEIVED DATE TESTED **IDENTIFICATION** SOURCE SAMPLE METHOD OF ANALYSIS

96-S166 25 July 1996 26 July 1996 **GS - 3** NY One 41 lb. sample ASTM D422

**RESULTS** Sieve Analysis

sieve <u>size</u>	% passing by weight
2"	100
1-1/2	98
1	96
3/4	95
1/2	94
3/8	90
#4	84
10	78
20	69
40	61
50	57
100	51
200	43
0.074 mm	40
0.005	24
0.001	18

Massachusetts Tel. (617) 575-0162 • Fax (617) 821-8940

**Hydrometer Analysis** 

Rhode Island Tel. (401) 467-6454 • Fax (401) 467-2398 TEI/AC 756050 96-S166 07/29/96

page 2

#### **REMARKS**

Please do not hesitate to call should you have any questions concerning these test methods and results.

THIELSCH ENGINEERING, INC.

Pamela Olsen, Manager

Construction Testing Services

#### THIELSCH ENGINEERING, INC.

**602 Neponset Street** Canton, Massachusetts 02021

195 Frances Avenue Cranston, Rhode Island 02910

July 29, 1996

**Aneptek Corporation** 209 West Central Street Natick, Massachusetts 01760

#### **EVALUATION OF MATERIAL** TEI LAB # 756050

SAMPLE NUMBER DATE RECEIVED DATE TESTED IDENTIFICATION SOURCE SAMPLE METHOD OF ANALYSIS

96-S167 25 July 1996 26 July 1996 **GS - 4** NY One 41 lb. sample ASTM D422

**RESULTS** Sieve Analysis

sieve <u>size</u>	% passing by weight
2"	100
1-1/2	96
1	94
3/4	92
1/2	88
3/8	85
#4	83
10	72
20	64
40	56
50	53
100	45
200	37
0.074 mm	37
0.005	22
0.001	16

**Hydrometer Analysis** 

Massachusetts Tel. (617) 575-0162 • Fax (617) 821-8940

Rhode Island Tel. (401) 467-6454 • Fax (401) 467-2398 TEI/AC 756050 96-S167 07/29/96

page 2

#### **REMARKS**

Please do not hesitate to call should you have any questions concerning these test methods and results.

THIELSCH ENGINEERING, INC.

Pamela Olsen, Manager

**Construction Testing Services** 

#### ESTIMATION OF HYDRAULIC CONDUCTIVITY BASED ON GRAIN SIZE ANALYSIS OF SAMPLE GS-1 STEWART AIR NATIONAL GUARD BASE, NEWBURGH, NEW YORK

		Percent			
Sieve	d	Passing			
Size	(cm)	By Weight	F	dm	F/dm
2"	5.08	100			
			0	4.399409051	0
1.5"	3.81	100			
			0.1	3.110851973	0.0321
1"	2.54	90			
			0.06	2.199704526	0.0273
0.75"	1.905	84			
			0.09	1.555425987	0.0579
0.50"	1.27	75			
			0.04	1.1001409	0.0364
0.375"	0.953	71			
			0.1	0.674932589	0.1482
#4	0.478	61			
			0.16	0.283379604	0.5646
10	0.168	45			
			0.08	0.118793939	0.6734
20	0.084	37			
			0.06	0.05939697	1.0102
40	0.042	31			0.0404
_			0.03	0.03531855	0.8494
50	0.0297	28	0.00	0.0044.00074	0.0407
			0.06	0.021106871	2.8427
100	0.015	22	0.05	0.040505054	4 7450
			0.05	0.010535654	4.7458
200	0.0074	17	0.00	0.004.000500	10.0075
	0 0005		0.02	0.001923538	10.3975
0.005 mm	0.0005	15	0.00	0.00000007	134.1641
0.0004	0.0001	10	0.03	0.000223607	134.1041
0.0001	0.0001	12	0.12	1.0000E-05	12,000.00
	4 0000E 00		0.12	1.0000=05	12,000.00
	1.0000E-06			Sum of Eldm -	12,155.55
				Sum of F/dm =	12, 100.00

Fluid Density =	999.7 kg/m³
Fluid Dynamic Viscosity =	0.001308 kg/(m sec²)
Porosity =	0.25
Shape Factor =	7
Soil Intrinsic Permeability =	7.6733E-09
Hydraulic Conductivity =	5.75E-04

#### ESTIMATION OF HYDRAULIC CONDUCTIVITY BASED ON GRAIN SIZE ANALYSIS OF SAMPLE GS-2 STEWART AIR NATIONAL GUARD BASE, NEWBURGH, NEW YORK

		Percent	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Sieve	d	Passing			
Size	(cm)	By Weight	F	dm	F/dm
2"	5.08	100			
			0	4.399409051	0
1.5"	3.81	100			
			0.02	3.110851973	0.0064
1"	2.54	98			
			0.02	2.199704526	0.0091
0.75"	1.905	96			
			0.04	1.555425987	0.0257
0.50"	1.27	92			
			0.03	1.1001409	0.0273
0.375"	0.953	89			
			0.07	0.674932589	0.1037
#4	0.478	82			
			0.09	0.283379604	0.3176
10	0.168	73			
			0.09	0.118793939	0.7576
20	0.084	64			
			0.03	0.05939697	0.5051
40	0.042	61			
			0.06	0.03531855	1.6988
50	0.0297	55			
			0.07	0.021106871	3.3165
100	0.015	48			
			0.08	0.010535654	7.5933
200	0.0074	40			
			0.09	0.001923538	46.7888
0.005 mm	0.0005	31			
			0.09	0.000223607	402.4922
0.0001	0.0001	22			
			0.22	1.0000E-05	22,000.00
	1.0000E-06				
				Sum of F/dm =	22,463.64

Fluid Density =	999.7 kg/m³
Fluid Dynamic Viscosity =	0.001308 kg/(m sec²)
Porosity =	0.25
Shape Factor =	7
Soil Intrinsic Permeability =	2.2468E-09
Hydraulic Conductivity =	1.68E-04

## ESTIMATION OF HYDRAULIC CONDUCTIVITY BASED ON GRAIN SIZE ANALYSIS OF SAMPLE GS-3 STEWART AIR NATIONAL GUARD BASE, NEWBURGH, NEW YORK

		Percent			
Sieve	d	Passing			
Size	(cm)	By Weight	F	dm	F/dm
2"	5.08	100			
			0.02	4.399409051	0.004546065
1.5"	3.81	98			
			0.02	3.110851973	0.0064
1"	2.54	96		'	
			0.01	2.199704526	0.0045
0.75"	1.905	95			
			0.01	1.555425987	0.0064
0.50"	1.27	94			
			0.04	1.1001409	0.0364
0.375"	0.953	90			
			0.06	0.674932589	0.0889
#4	0.478	84			
			0.06	0.283379604	0.2117
10	0.168	78			
			0.09	0.118793939	0.7576
20	0.084	69			
			0.08	0.05939697	1.3469
40	0.042	61			
			0.04	0.03531855	1.1325
50	0.0297	57			
			0.06	0.021106871	2.8427
100	0.015	51			
			0.11	0.010535654	10.4407
200	0.0074	40			
			0.16	0.001923538	83.1800
0.005 mm	0.0005	24			
			0.06	0.000223607	268.3282
0.0001	0.0001	18			
			0.18	1.0000E-05	18000.00
	1.0000E-06				
				Sum of F/dm =	18,368.39

Fluid Density =	999.7 kg/m³
Fluid Dynamic Viscosity =	0.001308 kg/(m sec²)
Porosity =	0.25
Shape Factor =	7
Soil Intrinsic Permeability =	3.3604E-09
Hydraulic Conductivity =	2.52E-04

#### ESTIMATION OF HYDRAULIC CONDUCTIVITY BASED ON GRAIN SIZE ANALYSIS OF SAMPLE GS-4 STEWART AIR NATIONAL GUARD BASE, NEWBURGH, NEW YORK

		Percent			
Sieve	d	Passing			
Size	(cm)	By Weight	F	dm	F/dm
2"	5.08	100			
			0.04	4.399409051	0.00909213
1.5"	3.81	96			
			0.02	3.110851973	0.0064
1"	2.54	94			
			0.02	2.199704526	0.0091
0.75"	1.905	92			
			0.04	1.555425987	0.0257
0.50"	1.27	88			
			0.02	1.1001409	0.0182
0.375"	0.953	86			
			0.03	0.674932589	0.0444
#4	0.478	83		0.000000004	0.000
			0.11	0.283379604	0.3882
10	0.168	72	0.00	0.440700000	0.0704
	0.004	64	0.08	0.118793939	0.6734
20	0.084	64	0.08	0.05939697	1.3469
40	0.042	56	0.06	0.05939697	1.3409
40	0.042	50	0.03	0.03531855	0.8494
50	0.0297	53	0.00	0.00301033	0.0-3-
30	0.0291		0.08	0.021106871	3.7902
100	0.015	45	0.00	0.021100071	0.7002
	0.010		0.08	0.010535654	7.5933
200	0.0074	37	0.00	3.0.000001	
	0.007	<u> </u>	0.15	0.001923538	77.9813
0.005 mm	0.0005	22	2.10		
3.333	0.000		0.06	0.000223607	268.3282
0.0001	0.0001	16			
			0.16	1.0000E-05	16,000.00
	1.0000E-06				
				Sum of F/dm =	16,361.06

Fluid Density =	999.7 kg/m³	
Fluid Dynamic Viscosity =	0.001308 kg/(m sec²)	
Porosity =	0.25	
Shape Factor =	7	
Soil Intrinsic Permeability =	4.2355E-09	
Hydraulic Conductivity =	3.18E-04	